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New York State Museum

FREDERICK J. H. MERRILL Director

Bulletin 66

MISCELLANEOUS 2

INDEX TO PUBLICATIONS

OF THE

NEW YORK STATE NATURAL HISTORY SURVEY

AND

NEW YORK STATE MUSEUM

1837-1902

ALSO INCLUDING OTHER NEW YORK PUBLICATIONS ON RELATED SUBJECTS

BY

MARY ELLIS

Indexer University of the State of New York

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New York State Museum

FREDERICK J. H. MERRILL Director

Bulletin 66

MISCELLANEOUS 2

INDEX TO PUBLICATIONS

OF THE

NEW YORK STATE NATURAL HISTORY SURVEY

AND

NEW YORK STATE MUSEUM

1837-1902

PREFACE

The New York State Museum was established at the time of the final arrangement of the collections of the Natural History Survey of New York in 1843. An act of the Legislature placing the collections in the custody of the Regents of the University was passed May 10, 1845, and the first official report was published in 1848. In 1870 a law was passed establishing the museum on a permanent basis. Till 1871 the museum was styled the State Cabinet of Natural History and appears thus on the titlepages of the early reports. For a description of the Natural History Survey of New York and the origin of the State Museum, see Museum bulletin 19, p. 240-45, Museum bulletin 56, p. 5-10, University handbook 5, also Subject index under Natural History Survey, p. 442.

The publications indexed are those of the New York State Museum from 1848-1902 inclusive; also the annual reports of the early Natural History Survey, 1837-41; the final quarto reports constituting the *Natural History of New York* published 1842-94; papers on geology and entomology in the transactions of the

New York State Agricultural Society, of the Albany Institute and in Regents reports; and entomological papers in reports of the Forest, Fish and Game Commission. Publications which will bear an imprint date later than 1902 are referred to as *In press*, or *In preparation*, and are not fully indexed.

The later museum reports have two sets of paging, the first being distinguished by the letter r prefixed to page numbers of the director's report. Dates covered by a report are in curves, followed by dates of publication. Volume and page numbers are separated by a colon; e. g. 3:141 means volume 3, page 141.

For explanatory matter referring particularly to the subject index, see p. 304.

In the preparation of this bulletin, the indexer has received invaluable assistance from the State Museum staff, to whom cordial acknowledgments are made.

MARY ELLIS

ABBREVIATIONS

New York State Museum. Publications. 1848-1902.

Reports	Mus. rep.
Bulletins	Mus. bul.
Memoirs	Mus. mem.
Geologist's reports	Geol. rep.
Paleontologist's reports	Pal. rep.
Entomologist's reports	Ent. rep.
Botanist's reports	Bot. rep.

Natural History Survey. Annual reports. 1837-41.

Mineralogy	Min. rep.
Geology	Geol. rep. 1st dist.
	" 2d "
	" 3d "
	" 4th "
Paleontology	Pal. rep.

Natural History of New York. Final reports. 1842-94.

Zoology	Zool. N. Y.
Botany	Bot. N. Y.
Mineralogy	Min. N. Y.
Geology	Geol. N. Y.
Agriculture	Ag. N. Y.
Paleontology	Pal. N. Y.

Illustrations of Devonian Fossils.....Ill. Dev. Foss.

New York State Agricultural Society. Transactions..Ag. Soc. Trans.

Albany Institute. Transactions.....Alb. Inst. Trans.

LIST OF PUBLICATIONS

Any of the University publications will be sold in lots of 10 or more at 20% discount. When sale copies are exhausted, the price for the few reserve copies is advanced to that charged by secondhand booksellers to limit their distribution to cases of special need. Such prices are inclosed in brackets.

All publications are in paper covers, unless binding is specified.

Museum annual reports for 1847-1900. 1848-1902.

Price for all in print to 1892, 50 cents a volume, 75 cents in cloth; 1892-date, 75 cents, cloth.

These reports are made up of the reports of the director, geologist, paleontologist, botanist and entomologist, and museum bulletins and memoirs, issued as advance sections of the reports.

1 (for 1847) 1848. 33+39+15 p. O.

Contents: Report of Chancellor, p. 3-4; Account, p. 5; Donations 1847, p.6; Catalogue of Mammalia and Birds Ap. 11, 1818, p.7-20; Beck, L. C. Catalogue of Specimens in the Mineralogical Department of the Geological Survey, p.21-33; Hall, James. Catalogue of Specimens in the Geological Department of the Geological Survey, 39p.; Hall, James. Catalogue of Specimens in the Palaeontological Department of the Geological Survey, 15p.

2 (for 1848) 1849. 91 p. 5 pl. (lith.) O.

Contents: Report of Chancellor, p. 9-12; Account, p. 13-14; Catalogue of Quadrupeds, Birds, Reptiles, Fishes etc. added Ap. 11, 1848 to Jan. 1, 1849, p.15-23; Fitch, Asa. Catalogue of Insects Dec. 1, 1848, p.25-39; Torrey, John. Catalogue of Plants of the State of New York, of which Specimens are preserved in the Cabinet at Albany, p.41-64; List of Minerals, Geological Specimens and Fossils added 1847 and 1848, p.65-70; Catalogue of the historical and antiquarian collection, p.71-79; Morgan, L. H. Communications from, p. 81-91; Ground Plans and Dimensions of Several Trench Inclosures in Western New York or Fort Hills, 5 pl.

3 (for 1849) 1850. 175 p. illus. 28 pl. (lith.) O.

Contents: Report of Chancellor, p. 9-12; Account, p. 14-16; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1849 to Jan. 1, 1850, p.17-26; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1849 to Jan. 1, 1850, p.27-46; Additions to the Historical and Antiquarian Collection, Jan. 1, 1849 to Jan. 1, 1850, p.47-60; Catalogue of Reptiles and Amphibians Jan. 1, 1850, p.61-64; Morgan, L. H. Report upon Articles Furnished the Indian Collection, p.65-97, 18 pl.; Hough, F. B. Ancient Remains of Art in Jefferson and St

Lawrence Counties, p.99-105, 5 pl.; Beck, L. C. Mineralogy of New York, p.107-51; References to Essays and Writings on the Natural History of New York, p.153-56; Index to Volumes in the State Cabinet containing the Plants of New York, p.157-66; Hall, James. New Species of Fossils from the Trenton Limestones, p.167-75. 5 pl.

3 *rev. ed.* (for 1849) 1850. 183p. 28 pl. (lith.) O.

Contents: Report of Chancellor, p.9-12; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1849 to Jan. 1, 1850, p.15-24; Catalogue of Reptiles and Amphibians Jan. 1, 1850, p.25-28; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1849 to Jan. 1, 1850, p.29-48; Additions to the Historical and Antiquarian Collection Jan. 1, 1849 to Jan. 1, 1850, p.49-62; Morgan, L. H. Report upon Articles Furnished to the Indian Collection, p.63-95. 18pl.; Hough, F. B. Ancient Remains of Art in Jefferson and St Lawrence Counties, p. 99-105. 5 pl.; Beck, L. C. Mineralogy of New York, p. 109-53; References to Essays and Writings on the Natural History of New York, p.155-60; Index to Volumes in the State Cabinet containing the Plants of New York, p.161-72; Hall, James. New Species of Fossils from the Trenton Limestones, p. 173-83. 5 pl.

4 (for 1850) 1851. 146 p. illus. 5 pl. (lith.) O.

Contents: Report of Chancellor, p. 9-12; Account, p. 14-16; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians etc. added Jan. 1, 1850 to Jan. 1, 1851, p.17-41; Fitch, Asa. Catalogue of Insects collected and arranged, p.43-69; Botany, p.71; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1850 to Jan. 1, 1851, p.73-90; Additions to the Historical and Antiquarian Collection Jan. 1, 1850 to Jan. 1, 1851, p.91-101; Hough, F. B. Notices of Ancient Remains of Art in Jefferson and St Lawrence Counties, p.103-9. 5 pl.; Salisbury, J. H. Analysis of a Specimen of Hematitic Iron Ore, p.111; References to various Writings relating to the Natural History of New York that have appeared during the Year, p.113-16; Hall, James. Catalogue of Specimens of the Rocks and Fossils in the Gray Sandstone, Medina Sandstone, Clinton Group, Niagara Group, Onondaga Salt Group, and a Part of the Water-lime Group, p.117-42; Memorandum of Drawers and Boxes of Fossils, p.143-46.

5 (for 1851) 1852. 117p. illus. 22pl. (lith.) O.

Contents: Report of Chancellor, p. 9-10; Account, p. 12-14; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1851 to Jan. 1, 1852, p.15-34. 2 pl.; Catalogue of Minerals, Geological Specimens and Fossils added Jan. 1, 1851 to Jan. 1, 1852, p.35-43; Additions to the Historical and Antiquarian Collection Jan. 1, 1851 to Jan. 1, 1852, p.45-54; References to various Writings relating to the Natural History of New York that have appeared during 1851, p.55-57; Meriam, E. Description of the Means employed to Remove the Rocks at Hellgate by Submarine Engineering, p.59-64; Materials belonging to the State, which have been used in Publishing the Natural History and the Annual Reports of the Regents received since Feb. 12, 1851, p.65-66; Morgan, L. H. Report on the Fabrics, Inventions, Implements and Utensils of the Iroquois, made Jan. 22, 1851, p.67-117. 20 pl.

6 (for 1852) 1853. 35 p. O.

Contents: Report of Chancellor, p. 7-8; Gebhard, John, jr. Statement and Proposal of, p.9-11; Catalogue of the Cabinet of Fossils of John Gebhard jr, p.12-13; Account, p.14-15; Catalogue of Quadrapeds, Birds, Reptiles, Amphibians etc. added Jan. 1, 1852 to Jan. 1, 1853, p.17-24; Catalogue of Minerals, Geological Specimens and Fossils added Jan. 1, 1852 to Jan. 1, 1853, p.25-28; Fossils which were Part of Gebhard Collection delivered by Hall to the Curator of the State Cabinet, p.29-30; Miscellaneous, p.31-32; Additions to the Historical and Antiquarian Collection Jan. 1, 1852 to Jan. 1, 1853, p.33-35.

7 (for 1853) 1854. 128p. illus. 2pl. (lith.) O.

Contents: Report of Chancellor, p.7-9; Account, p.10-11; Catalogue of Quadrapeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1853 to Jan. 1, 1854, p.13-26; Catalogue of Mollusca, Crustacea, etc. added Jan. 1, 1853 to Jan. 1, 1854, p.27-42; Additions to the Botanical Department Jan. 1, 1853 to Jan. 1, 1854, p.43-50; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1853 to Jan. 1, 1854, p.51-65; Additions to the Historical and Antiquarian Collection Jan. 1, 1853 to Jan. 1, 1854, p.67-72; Catalogue of Indian Relics, p.73-77; Cook, G. H. On the Nature of Specimens of Salt and Salt Water presented by him with an Analysis, p.79-93; Baird, S. F. On the Serpents of New York, p.95-124, 2pl.; Order of Publication of the Volumes of Natural History of New York, p.125; Materials to be used in Completing the Publication of the Natural History, p.127.

8 (for 1854) 1855. 69p. 1pl. (lith.) O.

Contents: Report of Chancellor, p. 7-8; Account, p. 9-10; Catalogue of Quadrapeds, Birds, Reptiles, Fishes etc. added Jan. 1, 1854 to Jan. 1, 1855, p.13-22; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1854 to Jan. 1, 1855, p.23-31; Additions to the Historical and Antiquarian Collection Jan. 1, 1854 to Jan. 1, 1855, p.33-39; Materials to be used in Completing the Publication of the Natural History, p.41-44; Miscellaneous, p. 45-48; DeKay, J. E. Catalogue of the Fishes Inhabiting the State of New York, p. 49-69.

9 (for 1855) 1856. 64 p. illus. O.

Contents: Report of Chancellor, p.7-8; Account, p.9; Catalogue of Birds, Reptiles, Amphibians, Fishes and Shells added Jan. 1, 1855 to Jan. 1, 1856, p.11-38; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1855 to Jan. 1, 1856, p.39-48; Additions to the Historical and Antiquarian Collection Jan. 1, 1855 to Jan. 1, 1856, p.49-60; Materials to be used in Completing the Publication of the Paleontology, p.61-63.

10 (for 1856) 1857. 190p. illus. O.

Contents: Report of Chancellor, p.7-8; Account, p.9; Addresses delivered at the Inauguration of the State Geological Hall, p.11-28; Catalogue of Fossils collected by Jewett, p.29-37; Hall, James. Descriptions of Palaeozoic Fossils, p.39-180; Hall, James. On the Genus *Tellinomya* and Allied Genera, p. 181-86; Miscellaneous, p. 187-90.

11 (for 1857) 1858. 44 p. O.

Contents: Report of Chancellor, p. 7-9; Account, p. 10; Catalogue of Geological Specimens from England, p.11-36; Catalogue of Shells, p.37-42; Catalogue of Fossils, p.43; Miscellaneous Contributions, p.44.

12 (for 1858) 1859. 111 p. illus. O.

Contents: Report of Chancellor, p.3-4; Account, p.5; Hall, James. Contributions to the Palaeontology of New York, p.7-96, 110; Donations and Purchases during 1858, p.97-109; Note on the genus Ambonychia, p.110.

13 (for 1859) 1860. 128 p. illus. 24 pl. (lith.) map. O.

Contents: Report of Chancellor, p. 5-6; Account, p. 7-8; Catalogue of Mammalia, Birds, Reptiles and Fishes added Jan. 1, 1859 to Jan. 1, 1860, p.11-14; List of Deficiencies in Mammalia, Birds, Reptiles and Amphibia Inhabiting the State, p.15-16; Additions to the Cabinet, principally Fossils, p.17-18; List of Geological and Mineralogical Specimens donated by T. A. Cheney, p.19; Donations to the Historical and Antiquarian Collection from T. A. Cheney, p.20; Catalogue of the Reigen Collection of Mazatlan Mollusca presented by P. P. Carpenter, p.21-36; Cheney, T. A. Ancient Monuments in Western New York, p.37-52. 24 pl.; Hall, James. Contributions to Palaeontology, 1858 and 1859, p.53-125; Supplementary Note on Palaeontology of New York v.3, p.126-28.

14 (for 1860) 1861. 109p. 20pl. (lith.) O.

Contents: Report of Chancellor, p. 7-8; Account, p. 9-10; Catalogue of Additions Jan. 1, 1860 to Jan. 1, 1861, p.13-15; Lincklaen, Ledyard. Guide to the Geology of New York and to the State Geological Cabinet, p.17-85, 20 pl.; Hall, James. Contributions to the Palaeontology of New York, p. 87-110.

15 (for 1861) 1862. 198p. illus. 11pl. (lith.) O.

Contents: Report of Chancellor, p. 7; Account, p. 9; Donations Jan. 1, 1861 to Jan. 1, 1862, p. 13; Catalogue of Shells from John G. Anthony, p.15-21; Catalogue of Shells contributed from the Duplicates collected by the Exploring Expedition by Prof. Henry, p.23-25; Hall, James. Contributions to Palaeontology, p.27-197. 11 pl.; Jewett, Ezekiel. Letter regarding Fossils of the Chemung group, p.198.

16 (for 1862) 1863. 226p. illus. 16pl. (lith.) O.

Contents: Report of Chancellor, p.7; Account, p.9; Donations 1862, p.13-14; Catalogue of Collections made by the Curator 1862, p.15; Danker, H. A. List of Birds of New York noticed in Maine June 1862, p.15-16; Hall, James. Contributions to Palaeontology, p.17-226. 16 pl.; Bruyas, Jacques. Radical Words of the Mohawk Language, 123 p.

17 (for 1863) 1864. 60 p. O.

Contents: Report of Chancellor, p. 5-6; Report of Secretary of Regents, p.9-11; List of Deficiencies, p.12-19; Donations 1863, p.20-21; Catalogue of Additions made by the Curator 1863, p.22-23; Additions 1863 acquired by Purchase, p.23; Clinton, G. W. Plants of Buffalo and its Vicinity, p. 24-35; Meteorological Observations, p. 36-45; Annual Meteorological Synopsis for 1863, p. 46-49; Hall, James. Contributions to the Palaeontology of New York, p.50-60.

18 (for 1864) 1865. 231p. illus. 2pl. (phot.) O.

Contents: Report of Chancellor, p. 5-7; Additions 1864, p. 11-16; Ward, H. A. Wadsworth Gallery of Casts of Fossil Animals, p. 17-52. 2 pl.; Paine, J. A. Catalogue of Plants found in Oneida County and Vicinity, p. 53-192; Peck, C. H. Catalogue of Mosses, p. 193-96; Clinton, G. W. Flora of the State, p. 197-205; Results of Meteorological Observations, p. 207-31.

19 (for 1865) 1866. 80 p. O.

Contents: Report of Chancellor, p. 5-7; Special Report of the Regents in Relation to the State Cabinet of Natural History, p. 8-32; Account, p. 33; Additions 1865, p. 39-41; Peck, C. H. List of Mosses, p. 42-70; List of Plants for State Herbarium collected by H. B. Lord, p. 71; Clinton, G. W. Flora of the State, p. 72-80.

20 (for 1866) 1867. 410p. illus. 21pl. (lith.) O.

Contents: Report of Chancellor, p. 5-8; Account, p. 11; Additions 1866, p. 15-18; Catalogue of Shells presented by Smithsonian Institution, p. 19-54; List of Specimens in the Economic Collection, p. 55-57; Catalogue of Books in the Library, p. 59-61; Wilson, W. D. Local Climatology, p. 63-106; Meteorological Observations, p. 107-40; Whitfield, R. P. Observations on the Internal Appendages of the Genus *Atrypa*, p. 141-44. 1 pl.; Notice of v. 4 of the Palaeontology of New York, p. 145-68; Hall, James. Introduction to the Study of the Graptolitidae, p. 169-239; Hall, James. Contributions to Palaeontology, p. 240-401. 16 pl.; Hall, James. Notes upon the Geology of some Parts of Minnesota; Note upon the Structure of the Mountain Region in the Northern Part of Georgia and Alabama, and the Adjacent Parts of Tennessee; Note upon the Geological Relations of the Oil-bearing Strata of Canada West; Peck, C. H. Flora of the State, p. 403-10.

^b20 rev. ed. (for 1866) 1868; issued 1870. 447p. illus. 23pl. (lith.) Q.

Contents: Report of Chancellor, p. 9-12; Account, p. 15; Additions 1866, p. 17-20; Catalogues of Shells presented by Smithsonian Institution, p. 21-60; List of Specimens in Economic Collection, p. 61-63; Catalogue of Books 1866, p. 64-66; Wilson, W. D. Local Climatology, p. 67-106; Results of Meteorological Observations, p. 107-41; Peters, C. H. F. Longitude of Western Boundary Line of State of New York, p. 143-57; Peck, C. H. Flora of the State, p. 159-66; Whitfield, R. P. Observations on the Internal Appendages of the Genus *Atrypa*, p. 167-72. 1 pl.; Notice of v. 4 of Palaeontology of New York, p. 173-99; Hall, James. Introduction to the Study of the Graptolitidae, p. 201-75. 4 pl.; Hall, James. Contributions to Palaeontology, p. 277-345; Hall, James. New or Little Known Species of Fossils from Rocks of the Age of the Niagara Group, p. 347-438. 17 pl.

21 (for 1867) 1871. 7+190p. illus. 9pl. (phot.) 4 maps. O.

Contents: Report of Chancellor, pref. p. 5-6; Account, pref. p. 7; Report of Curator, p. 5-12; Additions 1867, p. 13-19; Schedule of Contents of

^aTitles of these three papers appear in the table of contents, but the papers were never published, except the first which was printed in the Transactions of the American Philosophical Society. 1869. 13:329-41.

^b300 copies printed.

Pickett Collection, p. 20-21; Report of Botanist, p. 23-24; Morgan, L. H. Stone and Bone Implements of the Arickarees, p. 25-46. 6 pl.; Hunt, T. S. On the Mineralogy of the Laurentian Limestones of North America, p. 47-98; Hall, James. Cohoes Mastodon, p. 99-148. 2 pl. 4 maps; Index to Reports 1-20 Exclusive of Geologic and Palaeontologic Papers, p. 149-90.

22 (for 1868) 1869. 7+113 p. map. O.

Contents: Report of Chancellor, pref. p. 5; Account, pref. p. 6; Report of Curator, p. 1-7; Additions 1868, p. 9-16; Aldrich, T. H. Partial List of Shells found near Troy, N. Y., p. 17-24; Report of Botanist, p. 25-106; Merriam, C. L. Meteorological Report, p. 107-8; Hough, F. B. Early Observations upon Magnetic Variations, p. 109-13.

23 (for 1869) 1873. 9+252p. 14pl. (lith.) O.

Contents: Report of Chancellor, pref. p. 7-8; Account, pref. p. 9; Report of Curator, p. 5-15; Additions 1869, p. 17-26; Report of Botanist, p. 27-135. 6 pl.; Lintner, J. A. Entomological Contributions, p. 137-216. 2 pl.; Speyer, A. On *Cucullia intermedia* n. sp. and *C. lucifuga* W. V., p. 217-22; Hall, James & Whitfield, R. P. Descriptions of Devonian Fossils, p. 223-43. 4 pl.; Hall, James. New or Imperfectly Known Forms among the Brachiopoda, p. 244-47. 2 pl.; Hall, James. Reply to a Note on a Question of Priority, p. 248-52.

24 (for 1870) 1872. 7+232p. 9pl. (lith.) O.

Contents: Report of Chancellor, pref. p. 5; Account, pref. p. 7; Report of Director, p. 5-16; Additions 1870, p. 17-32; List of Mounted Fishes, p. 33-37; List of Fishes Received from the Smithsonian Institution in 1865, p. 39-40; Report of Botanist, p. 41-108. 4 pl.; Lintner, J. A. Entomological Contributions no. 2, p. 109-70; Colvin, Verplanck. Ascent of Mt Seward and its Barometrical Measurement, p. 171-80. 1 pl.; Hall, James & Whitfield, R. P. New Species of Fossils from the Vicinity of Louisville, Kentucky, and the Falls of the Ohio, p. 181-200a. 5 pl. in 27th rep.; Hall, James & Whitfield, R. P. Some Peculiar Impressions in Sandstone of Chemung Group, p. 201-4; Hall, James. New Species of Crinoidea and other Fossils from Strata of the Age of the Hudson River Group and Trenton Limestone, p. 205-24. 3 pl.; Hall, James. New Species of Fossils from the Hudson River Group in the Vicinity of Cincinnati, Ohio, p. 225-32. 1 pl.

25 (for 1871) 1873. 7+123p. 2pl. (lith.) O.

Contents: Report of Chancellor, pref. p. 7; Report of Director, p. 5-13; Additions 1871, p. 15-26; Contents of Gebhard Collection, p. 27-33; Long Island Mollusca presented, p. 35-38; Catalogue of European Shells presented by the Smithsonian Institution in 1869, p. 39-55; Report of Botanist, p. 57-123. 2 pl.

26 (for 1872) 1874. 6+192 p. illus. O.

Contents: Report of Chancellor, pref. p. 5-6; Report of Director, p. 5-15; Additions 1872, p. 17-25; List of Iron Ores in Economic Collection, p. 27-30; Record of Borings of Gardner Oil Well no. 3 at East Shamburg, Pennsylvania, p. 31-33; Report of Botanist, p. 35-91; Hall, James. Descriptions of Bryozoa and Corals of the Lower Helderberg Group, p. 93-116; Lintner, J. A. Entomological Contributions no. 3, p. 117-92.

27 (for 1873) 1875. 7+14Sp. 7pl. (lith.) map. O.

Contents: Report of Chancellor, pref. p. 7; Report of Director, p. 5-21; Additions 1873, p.23-40; List of Rock Specimens from Cumberland, Eng. p.41-42; List of Land and Fresh Water Shells presented by T. H. Aldrich, p. 43-46; List of Gould types of Mollusca in Museum Collection, p. 47-55; List of Building Stones in Economic Collection, p.57-71; Report of Botanist, p. 73-116, 2 pl.; Hall, James. The Niagara and Lower Helderberg Groups; their Relations and Geographical Distribution, p. 117-31; Hall, James. Descriptions of New Species of Goniatitidae, p.132-36; Lintner, J. A. Entomological Contributions, p.137-48.

28 (for 1874) 1879. 7+210p. 37pl. (lith.) O. (State Museum ed.)

Contents: Report of Chancellor, pref. p. 7; Report of Director, p. 5-16; Additions 1874, p.17-30; Report of Botanist, p.31-88. 2 pl.; Walcott, C. D. Discovery of the Remains of the Natatory and Branchial Appendages of Trilobites, p. 89-92; Walcott, C. D. New Species of Fossils from the Trenton Limestone, p. 93-97; Hall, James. Fauna of the Niagara Group in Central Indiana, p. 99-203. 32 pl.; Some Remarkable Crinoidal Forms from the Lower Helderberg Group, p. 205-10. 3 pl.

29 (for 1875) 1878. 82p. 2pl. (lith.) O.

Contents: Report of Chancellor, p. 7; Report of Director, p. 11-18; Additions 1875, p. 19-28; Report of Botanist, p. 29-82. 2pl.

30 (for 1876) 1878. 7+256 p. 4 pl. (lith.) O.

Contents: Report of Chancellor, pref. p. 7; Report of Director, p. 5-12; Additions 1876, p. 13-22; Report of Botanist, p. 23-78. 2 pl.; Leeds, A. R. Lithology of the Adirondacks, p. 79-109; Hall, J. W. & Fritz-Gaertner, R. On the Structure of *Astraeospongia meniscus*, p.111-16. 1 pl.; Lintner, J. A. Entomological Contributions no. 4, p.117-254; Hall, James. Genus *Plumalina*, p.255-56. 1 pl.

31 (for 1877) 1879. 6+78p. 1pl. (lith.) O.

Contents: Report of Chancellor, pref. p.4; Report of Director, p.5-10; Additions 1877, p. 11-17; Report of Botanist, p. 19-60; Walcott, C. D. Some Sections of Trilobites from the Trenton Limestone, p. 61-65. 1 pl.; Walcott, C. D. Eggs of the Trilobite, p.66-67; Walcott, C. D. New Species of Fossils from the Chazy and Trenton Limestones, p.68-71; Fritz-Gaertner, R. *Phlogopyte*, p. 72-78.

32 (for 1878) 1879. 7+176 p. O.

Contents: Report of Chancellor, pref. p.7; Report of Director, p.5-9; Additions 1878, p. 10-16; Report of Botanist, p. 17-72; Peck, C. H. Mosses of Caledonia Creek, p. 73-74; Lintner, J. A. Insects and Other Animal Forms of Caledonia Creek, N. Y., p. 75-99; Webster, H. E. Annelida chaetopoda of New Jersey, p.101-28; Walcott, C. D. New Species of Fossils from the Calcareous Formation, p. 129-31; Hall, C. E. Laurentian Magnetic Iron Ore Deposits in Northern New York, p. 133-40; Hall, James. Bryozoa and Corals of the Lower Helderberg Group, p. 141-76.

33 (for 1879) 1880. 49p. 2pl. (lith.) O.

Contents: Report of Chancellor, p. 3-4; Report of Director, p. 5-10; Report of Botanist, p. 11-49. 2 pl.

34 (for 1880) 1881. 58p. 4pl. (lith.) O.

Contents: Report of Chancellor, p. 3-4; Report of Director, p. 5-12; Additions 1880, p.13-19; Additions to the Library 1880, p.20-23; Report of Botanist, p. 24-58. 4 pl.

35 (for 1881) 1884. 481 p. 30 pl. (lith.) map. O.

Contents: Report of Chancellor, p. 5-6; Report of Director, p. 7-11; Additions 1881, p.13-18; Distribution of Duplicate Fossils and Minerals, p.19-27; List of Species in each of Ten Duplicate Collections of Fossils for High Schools and Academies, p.29-32; List of Species and Specimens of Cephalopoda, p.33-66; Crinoidea from Tentaculite Limestone, p.67; List of Unionidae of the Gould Collection, p.68-81; List of Unionidae of the New York State Collection, p.82-83; List of Unionidae of the General Collection, p.84-101; List of Land Shells of the New York State Collection, p.102-6; List of Corbiculadae of the New York State Collection, p.107; List of Land Shells of the United States in the Museum Collection, p.108-11; List of Shells presented in 1875 by Dr James Lewis, p.112-17; Statistics Relating to the State Museum, as compiled from the Report made to the Tenth Census of the United States Jan. 4, 1882, p. 118-19; Hall, J. W. Machinery and Methods of Cutting Specimens of Rocks and Fossils, p.121-24. 2 pl.; Report of Botanist, p.125-64; De Tarr, D. N. List of the Rhizopoda found in the Vicinity of Albany, N. Y., p. 165-67; Simpson, G. B. Anatomy and Physiology of Anodonta fluviatilis, p.169-91, 11 pl.; Wright, S. H. Aboriginal Work on Bluff Point, Yates co. N. Y., p. 193-94. 1 pl.; Wright, B. H. Geology of Yates County, N. Y., p. 195-206. 3 pl.; Walcott, C. D. New Species of Fossils from the Trenton Group of New York, p. 207-14. 1 pl.; Hall, James. Lamellibranchiate Shells of the Upper Helderberg, Hamilton and Chemung Groups, p. 215-406g; Hall, James. Fossil Corals from the Niagara and Upper Helderberg Group, p. 407-64. 8 pl.; Hall, James. Species of Fossil Reticulate Sponges Constituting the Family Dictyospongidae, p.465-82. 4pl.

36 (for 1882) 1883. 94p. 6pl. (lith.) O.

Contents: Report of Chancellor, p. 7-8; Report of Director, p. 9-15; Additions 1882, p. 17-20; List of Niagara fossils from Waldron, Indiana, p.21-25; List of Genera and Species of Brachiopoda of which Sections have been prepared for the Microscope, p.26; Report of Botanist, p.27-49; Beecher, C. E. Some Abnormal and Pathologic Forms of Fresh-water Shells from the Vicinity of Albany, N. Y., p. 51-55. 2 pl.; Hall, James. Bryozoa of the Hamilton Group, p. 57-72; Hall, James. On the Structure of the Shell in the Genus Orthis, p. 73-75. 2 pl.; Hall, James. New Species of Stylonurus from the Catskill Group, p. 76-77. 1 pl.; Beecher, C. E. List of Species of Fossils from an Exposure of Utica Slate and Associated Rocks within the Limits of the City of Albany, p.78; Murray, David, *comp.* Catalogue of the Published Works of James Hall, p. 79-94; Illustration of Cryptozoön, pl.6.

37 (for 1883) 1884. 68 p. O.

Contents: Report of Vice-chancellor, p. 7-9; Act to regulate the State Museum and the Publication of the Palaeontology of the State, p. 11-12; Contract between the State of New York by the Trustees of the State

Museum and Charles H. Van Benthuyssen, p. 12-16; Contract between the State of New York by the Trustees of the State Museum and James Hall, State Geologist, p.16-18; Report of Director, p.19-24; Current Work, p.25; Additions 1883, p.27-31; Catalogue of Translucent Sections of Rocks and Fossils, p.33-43; Report of Entomologist, p.47-60; ^aReport of Botanist, p. 63-68.

38 (for 1884) 1885. 138p. 3pl. (lith.) O.

Contents: Report of Chancellor, p. 3-5; Report of Director, p. 7-15; Additions 1884, p.16-20; List of Minerals in the General Collection, p. 21-60; Report of Geologist, p. 61-65; Report of Entomologist, p. 67-76; Report of Botanist, p. 77-138. 3 pl.

39 (for 1885) 1886. 229p. 12pl. (lith.) map. O.

Contents: Report of Chancellor, p. 7-8; Report of Director, p. 9-14; Additions 1885, p. 15-29; Report of Botanist, p. 30-73. 2 pl.; Report of Entomologist, p. 77-125; Simpson, G. B. Anatomy of the Snail, p. 127. 1 pl.; Webster, H. E. Annelida chaetopoda of New Jersey, p.128-59. 7 pl.; Hall, James. Obscure Organisms in Roofing Slates of Washington County, N. Y., p. 160. 1 pl.; Beecher, C. E. A Spiral Bivalve Shell from the Waverly Group of Pennsylvania, p. 161-63. 1 pl.; Smock, J. C. Crystalline Rock Region of Dutchess, Putnam and Westchester Counties, N. Y., p. 166-85; Hall, James. Building Stones, p. 186-225; Report of Geologist, p. 226-29.

40 (for 1886) 1887. 163 p. O.

Contents: Report of Vice-chancellor, p. 5-8; Report of Director, p. 11-19; Additions 1886, p. 21-34; Smock, J. C. Report of Field Work for 1886, p. 35-36; Report of Botanist, p. 37-77; Report of Entomologist, p. 79-154; Report of Geologist, p. 155-63 (Supplement to Geol. rep. 6).

41 (for 1887) 1888. 410p. illus. 9pl. (lith.) map. O.

Contents: Report of Chancellor, p. 9-11; Report of Director, p. 13-25; Additions 1887, p.27-34; Additions to Library, p.35-43; Catalogue of Gems and Precious Stones, p.44-48; Report of Botanist, p.49-122. 1 pl.; Report of Entomologist, p. 123-358; Report of Geologist, p. 359-410, 8 pl.
Contents of Geol. rep. 7 in Mus. rep. 41: Palaeontology of New York, v. 6, p. 361-78; Beecher, C. E. Synoptical Table of the Genera and Species described in v. 6 of the Palaeontology of New York, p. 363-75; Synopsis of Contents of Palaeontology of New York v. 7, p. 378-80; Hall, James. Palaeontology of New York v. 8, p. 381-82; Beecher, C. E. Statement of Condition of Work on Brachiopoda, Palaeontology of New York, v. 8, p. 383-84; Beecher, C. E. Lamellibranchiata. List of Genera Illus. and not Illus. on Plates of Geol. Rep. for 1882, p.385-87; Clarke, J. M. Supposed Mastodon Bones Found at Attica, N. Y., p. 388-90. 1 pl.; Hall, James. Description of New Species of Fenestellidae of the Lower Helderberg; with explanation of plates illus. species of the Hamilton group, described in Geol. rep. for 1886, p. 391-410. 8 pl.

42 (for 1888) 1889. 496p. illus. 3pl. (lith.) O.

Contents: Report of Chancellor, p. 9-13; Report of Director, p. 17-36. 1 pl.; Report of Assistant in Charge, p. 37-49; Additions to Collections,

^aTitles of four articles are enumerated but not printed here. The articles appear in Mus. bul. 2.

p.50-64; Additions to Library, p.65-74; Murray, David. Catalogue of Published Works of James Hall, p.75-97; Report of Botanist, p.99-144. 2 pl.; Report of Entomologist, p. 145-347; Report of Geologist, p. 349-496.

Contents of Geol. rep. 8 in Mus. rep. 42: Report of Geologist, p. 351-402; Palaeontology of New York, v. 7, p. 351-69; List of Type Specimens of Devonian Crustacea described in Palaeontology of New York v. 7, in the Possession of Museum, p. 370-73; Palaeontology of New York v. 8, p. 373-88; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p. 389-92; List of Microscopic Sections of Brachiopoda, p.392-93; List of Preparations for v. 8, p.393-94; List of Plates of Brachiopoda, p.394-95; Schuchert, Charles. List of Fossils in the Oriskany Sandstone of Maryland, New York and Ontario, p. 396-400; Clarke, J. M. Genus *Bronteus* in the Chemung Rocks, p.403-5; Clarke, J. M. List of Species Constituting the known Fauna and Flora of Marcellus Epoch in N. Y., p. 406-7; Clarke, J. M. Hercynian Question, p. 408-37; Bishop, I. P. Locality of Flint Implements in Wyoming County, N. Y., p. 438-40; Catalogue of Specimens Representative of the Taconic System, p.441-44; List of Plates, Drawings, names of Draughtsmen and Lithographers for Palaeontology of New York v. 5, pt 1 and 2, v. 7 and 8, p.445-49; Record of Locality Numbers, p. 450-96.

43 (for 1889) 1890. 274p. illus. 4pl. (lith.) map. O.

Contents: Report of Assistant in Charge, p. 11-20; Additions to collections, p. 21-37; Additions to Library, p. 37-47; Report of Botanist, p. 49-97. 4 pl.; Report of Entomologist, p.99-205; Report of Geologist, p. 207-74.

Contents of Geol. rep. 9 in Mus. rep. 43: Report of Geologist, p. 209-27; Palaeontology of New York v. 8, p. 209-18; Geological Map of the State of New York, p. 218-27; Hall, James. Fossil Dictyospongidae of the Devonian and Carboniferous Formations, p. 227-29; Schuchert, Charles. On *Syringothyris*, Winchell, and its American Species, p.230-39; Schuchert, Charles. List of Species of the American Palaeozoic *Orthis*, *Spirifera*, *Spiriferina* and *Syringothyris*, p.240-57; Hall, James. New Forms of Dictyospongidae from the Rocks of the Chemung Group, p.258-62; Record of Locality Numbers, p.263-74.

44 (for 1890) 1892. 405 p. illus. 12 pl. (lith.) O.

Contents: Report of Director, p. 11-16; Report of Assistant in Charge, p.17-21; Additions to Collections, p.22-26; List of Catalogues of Shells published in Former Annual Reports, p.27; Catalogue of Mounted Mammals in the Collection, Sep. 30, 1890, p.28-30; Catalogue of the Collection of Mammalian Osteology, p.31-33; Report of Geologist, p.35-114, 5 pl.; Report of Botanist, p. 115-87. 4 pl.; Report of Entomologist, p. 197-405. 3 pl.

Contents of Geol. rep. 10 in Mus. rep. 44: Report of Geologist, p. 37-55; Palaeontology of New York v. 8, p. 37-44; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p.45-48; Original Drawings for Palaeontology of New York v. 8, p. 49; List of Figures for v. 8, p.49-51; Lists of Microscopic Sections of Brachiopoda, p.52-53; Clarke, J. M. Report of Assistant Palaeontologist, p.59-61; List of Accessions to the Depart-

ment of Palaeontology, p. 62-64; Hall, James. Descriptions of Bryozoa, p. 65-87; Clarke, J. M. Genus *Acidaspis*, p. 91-101. 3 pl.; Clarke, J. M. *Coronura aspectans*, p. 105-9. 1 pl.; Clarke, J. M. *Terataspis grandis*, p. 111-14, 1 pl.; (Additional papers in geologist's edition).

45 (for 1891) 1892. 616p. illus. 2pl. (phot.) map. O.

Contents: Report of Director, p. 11-13; Report of Assistant Director, p. 14; Report of Assistant Zoologist, p. 15-19; Additions to Collections, p. 20-28; Catalogue of Muricidae, p. 29-45; Marshall, W. B. A Deposit of Marl and Peat in the Town of New Baltimore, p. 46-52; Bishop, I. P. Salt Industry of Central New York, p. 53-61; Report of Botanist, p. 63-102; Report of Entomologist, p. 103-320. 2 pl.; Report of Geologist, p. 321-616.

Contents of Geol. rep. 11 in Mus. rep. 45: Report of Geologist, p. 323-45; Livonia Salt Shaft, p. 326-28; Palaeontology of New York, v. 8, p. 328-29; Clarke, J. M. List of Preparations of Spirals, Loops and Hinge-plates for v. 8, pt 2, p. 330-31; List of Genera of Palaeozoic Brachiopoda, p. 331-37; Additions to Palaeontological Collections, p. 338-44; Clarke, J. M. Catalogue of the Collection of Geological and Palaeontological Specimens Donated by the Albany Institute, p. 347-69; Clarke, J. M. Report of Assistant Palaeontologist, p. 370-71; Clarke, J. M. List of Original and Illustrated Specimens in the Palaeontological Collections, pt 1, Crustacea, p. 373-437; Record of Localities of Extra Limital Geological and Palaeontological Collections, p. 438-39; Clarke, J. M. On *Cordania*, a Proposed New Genus of Trilobites, p. 440-43; Publications of Geologist, p. 444-47; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, p. 449-616.

46 (for 1892) 1893. 495 p. illus. O.

Contents: Report of Director, p. 11, 62-81; Report of Assistant Director, p. 12-14; Report of Assistant Zoologist, p. 15-61; Additions to Zoological Collections, p. 21-27; Catalogue of Zoological Collections, p. 29-61; Collections of Fossils made for Palaeontology of New York Previous to 1883, p. 62-65; List of Boxes of Fossils in State Hall, p. 66-74; Additions to Collections in Geology and Palaeontology, p. 75-77; School Collections, p. 77-79; Museum Publications, p. 79-81; Report of Botanist, p. 83-149; Report of Geologist, p. 151-288; Report of Entomologist, p. 289-495.

Contents of Geol. rep. 12 in Mus. rep. 46: Report of Geologist, p. 153-87; Palaeontology of New York v. 8, pt 1, p. 160-68; Palaeontology of New York v. 8, pt 2, p. 169-71; Geological Map of the State of New York, p. 171-84; Geological Surveys and Maps of Part of the State of New York, p. 184-85; Clarke, J. M. Report of Assistant Palaeontologist, p. 189-95; Additions to the Geological and Palaeontological Collections 1891-92, p. 196-99; Clarke, J. M. List of Original and Illustrated Specimens in the Palaeontological Collections, pt 2, Annelida and Cephalopoda, p. 201-50; Emerson, B. K. Two Boulders of a very Basic Eruptive Rock from the West Shore of Canandaigua Lake, p. 251-55; Prosser, C. S. Devonian Section of Central New York along the Unadilla River, p. 256-88.

47 (for 1893) 1894. 1137p. illus. pl. (phot.) maps. O.

Contents: Report of Director, p. 9-19; Report of Assistant Palaeontologist, p.17; Additions to Palaeontological Collection, p.18; Report of Assistant Director, p.21-30; Report of Assistant Zoologist, p.30-34; Additions to Collections, p.35-40; World's Fair Exhibits, p.41-75; Catalogue of Zoological Collections, p.77-128; Report of Botanist, p.129-74; Report of Entomologist, p. 175-97; Report of Geologist, p. 199-1137.

Contents of Geol. rep. 13 in Mus. rep. 47: Hall, James. Livonia Salt Shaft, its History and Geological Relations, p. 203-14; Luther, D. D. Geology of the Livonia Salt Shaft, p. 215-324; Clarke, J. M. Succession of the Fossil Faunas in the Section of the Livonia Salt Shaft, p. 325-52; Clarke, J. M. New or Rare Species of Fossils from the Horizons of the Livonia Salt Shaft, p. 353-83; Geological Survey of the State of New York, Reports, p.385-751; Darton, N. H. Relations of the Helderberg Limestones and Associated Formations in Eastern New York, p. 391-422; Darton, N. H. Geology of Albany County, p. 423-55; Nason, F. L. Economic Geology of Albany County, p. 457-81; Darton, N. H. Geology of Ulster County, p. 483-566; Nason, F. L. Economic Geology of Ulster County, p. 567-600; Darton, N. H. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties, p.601-23; Kemp, J. F. Geology of Essex County, p.625-66; Cushing, H. P. Geology of Clinton County, p. 667-83; Smyth, C. H. jr. Geology of Four Townships in St Lawrence and Jefferson Counties, N. Y., p. 685-709; Randall, F. A. Geology of Cattaraugus and Chautauqua Counties, p. 711-21; Clarke, J. M. Field Work in Chenango County, p.723-51; Clarke, J. M. *comp.* List of Publications relating to the Geology and Palaeontology of New York 1876-93, p.753-91; *Department of Palaeontology (v. 2 of Geol. rep.)* p.793-1137; Palaeontology of New York v. 8, pt 2, p. 797-802; Clarke, J. M. Evolution of the Genera of the Palaeozoic Brachiopoda, p.803-40; Description of New Species figured in v. 8, pt 2 of Palaeontology of New York, p. 841-51; Sherzer, W. H. Platynemic man in New York, p. 853-77; Simpson, G. B. Genera of Fenestellidae, p.879-921; Simpson, G. B. Glossary and Explanations of Specific Names of Bryozoa and Corals, p.923-41; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, pt 2, p.943-1137.

48 (for 1894) 1895. v.1, 650p.+p. 93-595, illus. pl. (phot.) maps. O. v. 2 (Report of Geologist), 669p. illus. 44 pl. (lith.) other pl. (phot.) maps. O. v. 3, 44 pl. (lith.) (on edible fungi). O.

Contents, v. 1: Report of Director, p.11-39; List of Accessions, p.13; List of Awards to Mineral Exhibit at World's Fair, p.14-15; Catalogue of New York Woods, p.16-20; Catalogue of Building Stones, p.21-31; Catalogue of Rock Specimens collected by Kemp, p.32-39; Report of Geologist, p. 41-44; Marshall, W. B. Geographical Distribution of New York Unionidae, p. 45-99; Report of Botanist, p. 101-337. 44 pl. in v. 3; Report of Entomologist, p.339-635; Report of Assistant Zoologist, p. 637-47; Marshall, W. B. List of Shells Inhabiting the Vicinity of Albany and Troy, N. Y., p. 641-47; Index, p. 648-50; Bulletin 12, Ries, Heinrich. Clay Industries of New York, p. 93-262 (2d paging); Bulletin 13, Lintner, J. A. San José Scale, *Aspidiotus perniciosus* and Some

Other Destructive Scale Insects of New York State, p.263-305 (2d paging); Bulletin 14, Kemp, J. F. Geology of Moriah and Westport Townships, Essex co., p.323-55 (2d paging); Bulletin 15, Merrill, F.J. H. Mineral Resources of New York State, p.359-595 (2d paging);

Contents of Geol. rep. 14 in Mus. rep. 48 v. 2: Staff of geologist, p. 5; Report of Geologist and Palaeontologist, p.7-29; Preface to Palaeontology of New York, v. 8, pt 2, p. 21-28; Geological Survey of the State of New York, Reports, p. 31-125; Darton, N. H. Faulted Region of Herkimer, Fulton, Montgomery and Saratoga Counties, p. 31-53; Beecher, C. E. & Hall, C. E. Field Notes on the Geology of the Mohawk Valley, p. 54-56; Lincoln, D. F. Geology of Seneca County, p. 57-125; Bernard, Felix. Principles of Palaeontology ed. by J. M. Clarke, p.127-215; Ruedemann, Rudolf. Development and Growth of Diplograptus, p. 217-49. 5 pl.; Girty, G. H. Revision of the Sponges and Coelenterates of the Lower Helderberg group of New York, p. 259-309. 7 pl.; Hall, James & Clarke, J. M. New Species of Brachiopoda Described in Palaeontology of New York v. 8, pt 1 and 2, p. 323-72. 14 pl.; Simpson, G. B. Handbook of the Genera of the North American Palaeozoic Bryozoa, p. 403-669. 30 pl.

- 49 (for 1895) v. 1, 1897, v. 2-3, 1898. v. 1, 6+334p. illus. 6 pl. (lith.) other pl. (phot.) O. v. 2 (Report of Geologist) 738p. illus. pl. (phot.) maps. Q. v. 3 (Report of Geologist) p.739-984. illus. 47 pl. (lith.) Q.

Contents, v. 1: Report of Director, p. 1-10; Additions to Collections, p. 9-10; Report of Geologist and Paleontologist, p.11-15; Report of Botanist, p.17-83. pl.44-49; Report of Entomologist, p.85-329; Index, p.331-34.

Contents of Geol. rep. 15, v. 1 in Mus. rep. 49, v. 2: Report of Geologist and Palaeontologist, p.7-26; Geological Survey of the State of New York, Reports, p. 27-698; Clarke, J. M. Stratigraphic and Faunal Relations of the Oneonta Sandstones and Shales, the Ithaca and the Portage Groups in Central New York, p. 27-81; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt 1, p. 83-222; Luther, D. D. Stratigraphic position of the Portage Sandstones in the Naples Valley and the Adjoining Region, p. 223-36; Luther, D. D. Economic Geology of Onondaga County, p. 237-303; Bishop, I. P. Geology of Erie County, p. 305-92; Ries, Heinrich. Geology of Orange County, p.393-475; Smyth, C. H. jr. Crystalline Rocks of St Lawrence County, p. 477-97; Cushing, H. P. Geology of Clinton County, p. 499-573; Kemp, J. F. Geology of Essex County, p. 575-614; Prosser, C. S. & Cumings, E. R. Sections and Thickness of the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley, p. 615-59; Smyth, C. H. jr. Tale Industry of St Lawrence County, p. 661-71; Ries, Heinrich. Physical tests of the Devonian Shales, p. 673-98; Ruedemann, Rudolf. Discovery of a Sessile Conularia, p. 699-728; Clarke, J. M. Crustaceans from the Chemung Group, p. 729-38.

Contents of Geol. rep. 15, v. 2 in Mus. rep. 49, v. 3: Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae; pt 1, p. 741-984. 47 pl.

- 50 (for 1896) v. 1, 1898, v. 2, 1899. v. 1, 4+403+134p. illus. pl. (phot.) maps. O. v. 2 (Report of Geologist), 8+448p. illus. 32pl. (lith.) other pl. (phot.) maps. Q.

Contents, v. 1: Report of Director, p.1-20; Additions to Museum Collections, p.12-20; Geology of Crystalline Rocks of Southeastern New York, p.21-31; Origin of Serpentine in the Vicinity of New York, p. 32-44; Public Geologic and Mineralogic Collections in the United States and Canada, p. 45-74; Index to Report of Director, p. 75-76; Report of Botanist, p. 77-159; Report of Entomologist, p. 161-403; Bulletin 16, Beauchamp, W. M. Aboriginal Chipped Stone Implements, p. 3-84 (2d paging); Bulletin 17, Merrill, F. J. H. Road Materials and Road Building in New York p. 87-134 (2d paging).

Contents of Geol. rep. 16 in Mus. rep. 50 v. 2: Report of Geologist and Palaeontologist, pref. p.7-8; Geological Survey of the State of New York, Reports, p.1-27, 171-226; Cushing, H. P. Boundary Between the Potsdam and Precambrian Rocks North of the Adirondacks, p. 1-27; Clarke, J. M. Naples Fauna in Western New York, p. 29-161. 9 pl.; Clarke, J. M. Early Stages of Certain Goniatites, p. 163-69; Luther, D. D. Brine Springs and Salt Wells of New York and the Geology of the Salt District, p.171-226; Grabau, A. W. Faunas of the Hamilton Group of Eighteen-mile Creek and Vicinity in Western New York, p. 227-339; Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongiadae, pt 2, p. 341-448. pl. 48-70.

- 51 (for 1897) 1899. v.1, r153+410p. illus. 9pl. (lith.) other pl. (phot.) maps. O. v.2 (Report of Geologist), 564p. illus. pl. (phot.) maps. O.

Contents, v.1: Report of Director, p.r5-13; Additions to Collections, p.r13-20; White, T. G. Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties, p.r21-54; Watson, T. L. Some Higher Levels in the Postglacial Development of the Finger-lakes, p.r55-117; Nevius, J. N. Talc Industry of St Lawrence County, N. Y., p.r119-27; Nevius, J. N. History of Cayuga Lake Valley, p.r129-53; Bulletin 18, Beauchamp, W. M. Polished Stone Articles Used by the New York Aborigines, p.3-102; Bulletin 19, Merrill, F. J. H. Guide to the Study of the Geological Collections of the New York State Museum, p.105-262; Report of Botanist, p.263-321. 9 pl.; Report of Entomologist, p.327-90; General Index, p.391-410.

Contents of Geol. rep. 17 in Mus. rep. 51, v.2: Report of Geologist and Paleontologist, p.5-7; Bishop, I. P. Petroleum and Natural Gas in Western New York, p.9-63; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt2, p.65-315; Eastman, C. R. Upper Devonian Fish Fauna of Delaware County, N. Y., p.317-27; Prosser, C. S. & Rowe, R. B. Stratigraphic Geology of the Eastern Helderbergs, p.329-54; Ries, Heinrich. Limestones of New York, p.355-467; Smyth, C. H. jr. Crystalline Rocks of Western Adirondack Regions, p.469-97; Kemp, J. F. & Newland, D. H. Geology of Washington, Warren and Parts of Essex and Hamilton Counties, p.499-553; Index, p.555-64.

- 52 (for 1898) 1900. v.1, r111+695p. illus. 6pl. (lith.) other pl. (phot.) maps. O. v.2 (Report of Geologist), 169p. illus. pl. (phot.) maps. O.

Contents, v.1: Report of Director, p.r5-17; Accessions to Collections, p.r18-32; Bagg, R. M. jr. Report of Work on the Collections of Mesozoic and Cenozoic Fossils in Geological Hall, p.r32-40; Catalogue of Mesozoic and Cenozoic Fossils, p.r40-46; Catalogue of European Fossils presented by Murchison, p.r47-71; Bagg, R. M. jr. *comp.* Synoptic Catalogue of Fossils, p.r71-78; Nevius, J. N. Fossil Plant from Orange County, p.r79-81; Nevius, J. N. Sacandaga Mining and Milling Co. and the Sutphen Process, p.r82-87; Ries, Heinrich. Notes on a Trip from Port Jervis to Rondout, p.r88-91; Bean, T. H. Fishes of Long Island, p.r92-111; Bulletin 20, Felt, E. P. Elm-leaf Beetle in New York State, p.1-43. 1pl.; Bulletin 21, Kemp, J. F. Geology of Lake Placid Region, p.47-67; Bulletin 22, Beauchamp, W. M. Earthenware of New York Aborigines, p.71-146; Bulletin 23, Report of Entomologist, p.151-295; Bulletin 24, Felt, E. P. Memorial of Life and Entomologic Work of J. A. Lintner, p.301-611; Bulletin 25, Report of Botanist, p.617-88. 5 pl.; General Index, p.689-95.

Contents of Geol. rep. 18 in Mus. rep. 52, v.2: Report of Acting State Geologist and Paleontologist, p.5-7; Kümmel, H. B. The Newark or New Red Sandstone Rocks of Rockland County, p.9-50; Prosser, C. S. Sections of the Formations Along the Northern End of the Helderberg Plateau, p.51-72; Cushing, H. P. Geology of Franklin County, p.73-128; Smyth, C. H. jr & Newland, D. H. Progress in Mapping Crystalline Rocks of Western Adirondack Region, p.129-35; Kemp, J. F., Newland, D. H. & Hill, B. F. Geology of Hamilton, Warren and Washington Counties, p.137-62; Index, p.163-69.

- 53 (for 1899) 1901. v.1, r170+867p. 4pl. (lith.) other pl. (phot.) maps. O. v.2, 234p. 33pl. (lith.) Q.

Contents, v.1: Report of Director, p.r5-170; Report of Geologist, p.r7-154; Additions to Collections, p.r163-70; Bulletin 26, Felt, E. P. Collection, Preservation and Distribution of New York Insects, p.3-34; Bulletin 27, Felt, E. P. Shade Tree Pests in New York State, p.39-60; Bulletin 28, Peck, C. H. Plants of North Elba, p.65-266; Bulletin 29, Miller, G. S. jr. Preliminary List of New York Mammals, p.271-390; Bulletin 30, Orton, Edward. Petroleum and Natural Gas in New York, p.395-526; Bulletin 31, Report of Entomologist, p.531-653; ^aReport of Paleontologist, p.659-816; Report of Botanist, p.821-67. 4pl.; General Index, p.657-61.

v.2: Memoir 3, Clarke, J. M. Oriskany Fauna of Becraft Mountain, p.1-128. 9pl.; Memoir 4, Peck, C. H. Edible Fungi of New York, p.129-234. 24pl.

Contents of Geol. rep. 19 in Mus. rep. 53, v.1: Report of Geologist, p.r7-16; Kemp, J. F. & Hill, B. F. Pre-Cambrian Formations in Parts of Warren, Saratoga, Fulton and Montgomery Counties, p.r17-35; Cushing, H. P. Geology of Rand Hill and Vicinity, Clinton Co., p.r37-82; Smyth, C. H. jr. Geology of the Crystalline Rocks in the Vicinity of the St

^a For contents see Paleontologist's reports, p. 262.

Lawrence River, p.r83-104; Bishop, I. P. Oil and Gas in Southwestern New York, p.r105-34; Nevius, J. N. Roofing Slate Quarries of Washington County, p.r135-50; Nevius, J. N. Emery Mines of Westchester County, p.r151-54.

- 54 (for 1900) 1902. v.1, r261+195+484p. 17pl. (lith.) other pl. (phot.) O. v.2, p.489-1063, 2pl. (lith.) other pl. (phot.) O. v.3, 968p. 37pl. (lith.) other pl. (phot.) O. v.4, 664p. 13pl. (lith.) other pl. (phot.) O.

Contents, v.1: Report of the Director and State Geologist, p.r3-261; Tests of Road Metal, p.r14-22; Cushing, H. P. Recent Geologic Work in Franklin and St Lawrence Counties, p.r23-82; Cushing, H. P. Pre-Cambrian Outlier at Little Falls, Herkimer co., p.r83-95; Finlay, G. I. Preliminary Report of Field Work in the Town of Minerva, Essex co., p.r96-102; Fairchild, H. L. Pleistocene Geology of Western New York, Report of Progress for 1900, p.r103-39; Eckel, E. C. The Quarry Industry in Southeastern New York, p.r141-76; Parsons, A. L. Recent Developments in the Gypsum Industry in New York State, p.r177-83; Accessions to Collections, p.r201-7; Stoller, J. H. Two New Land Isopods, p.r208-13; Scott, G. G. Notes on the Marine Food Fishes of Long Island and a Biologic Reconnaissance of Cold Spring Harbor, p.r214-29; Converse, H. M. Iroquois Silver Brooches, p.r231-54; Index, p.r255-61; Report of State Paleontologist 1900, p.3-124; Report of State Botanist 1900, p.129-99. 13pl.; Bulletin 32, Beauchamp, W. M. Aboriginal Occupation of New York, p.3-187; Bulletin 33, Farr, M. S. Check List of New York Birds, p.193-409; Bulletin 34, Cumings, E. R. Lower Silurian System of Eastern Montgomery County, Prosser, C. S. Notes on the Stratigraphy of the Mohawk Valley and Saratoga County, N. Y. p.415-84.

v.2: Bulletin 35, Ries, Heinrich. Clays of New York, p.489-944; Bulletin 36, Felt, E. P. 16th Report of State Entomologist, p.949-1063.

v.3: Bulletin 37, Felt, E. P. Illustrated Descriptive Catalogue of Injurious and Beneficial Insects of New York State, p.3-52; Bulletin 38, Miller, G. S. jr. Key to the Land Mammals of Northeastern North America, p.59-160; Bulletin 39, Clarke, J. M., Simpson, G. B. & Loomis, F. B. Paleontologic Papers, p.165-231; Bulletin 40, Simpson, G. B. Anatomy and Physiology of Polygyra Albolabris and Limax Maximus, p.237-314; Bulletin 41, Beauchamp, W. M. Wampum and Shell Articles Used by the New York Indians, p.319-480; Bulletin 42, Ruedemann, Rudolf. Hudson River Beds near Albany and their Taxonomic Equivalents, p.485-596; Bulletin 43, Kellogg, J. L. Clam and Scallop Industries of New York State, p.601-31; Bulletin 44, Ries, Heinrich. Lime and Cement Industries of New York, p.639-968.

v.4: Bulletin 45, Grabau, A. W. Guide to the Geology and Paleontology of Niagara Falls and Vicinity, p.3-284; Bulletin 46, Felt, E. P. Scale Insects of Importance and List of the Species in New York State, p.289-377; Bulletin 47, Needham, J. G. and Betten, Cornelius. Aquatic Insects in the Adirondacks, p.383-612; Bulletin 48, Woodworth, J. B. Pleistocene Geology of Portions of Nassau County and Borough of Queens, p.617-70; General Index, p.673-79.

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Geologist's annual reports for 1881-1900. Rep'ts 1, 3-13, 17-date, O; 2, 14-16, Q. 1881-1902:

The annual reports of the early natural history survey, 1837-41 are out of print.

Reports 1-4, 1881-84 were published only in separate form. Of the 5th report 4 pages were reprinted in the 39th museum report, and a supplement to the 6th report was included in the 40th museum report. The 7th and subsequent reports are included in the 41st and following museum reports, except that certain lithographic plates in the 11th report (for 1891) and 13th report (for 1893) are omitted from the 45th and 47th museum reports.

Separate volumes of the geologist's 12th and 20th reports can be supplied for 50 cents; 14th, 17th and 18th for 75 cents each; 15th and 16th for \$1 each; 19th for 40 cents. Others, except as parts of museum reports, are not available.

In 1898 the paleontologic work of the State was made distinct from the geologic and will hereafter be reported separately.

1 (for 1881) 1884. 15p. 11pl. (lith.) O.

Contents: Report of Geologist, p.3-7; Classification of the Lamellibranchiata, p.8-15. 11pl.

2 (for 1882) 1883. 17p. illus. 61pl. (lith.) Q.

Contents: Report of Geologist, p.1-3; Hall, James. Discussion upon Genus *Fenestella*, p.5-16; 33 plates illustrating corals and Bryozoans of upper and lower Helderberg groups; Brachiopoda, plates and explanations, pl.34-61.

3 (for 1883) 1884. 61p. O.

Contents: Report of Geologist, p.1-3; Hall, James. Bryozoans of the Hamilton Group, p.5-61.

4 (for 1884) 1885. 47p. illus. 2pl. (lith.) maps. O.

Contents: Report of Geologist, p.1-8; Geological Map of the State, p.4-8; Clarke, J. M. Geological Succession in Ontario County, N. Y., p.9-22; Hall, C. E. Laurentian Magnetic Iron Ore Deposits of Northern New York, p.23-34; Hall, James, Mode of Growth and Relations of the *Fenestellidae*, p.35-45. 2pl.; wood-cuts of palaeozoic pectenoid shells, p.47.

5 (for 1885) 1886. 47p. illus. 28pl. (lith.) maps. O.

Contents: Report of Geologist, p.3-5; Palaeontology of New York, v.5, pt2, Lamellibranchiata, p.5-7; Beecher, C. E. & Hall, C. E. Field Notes on

the Geology of the Mohawk Valley, p.8-10; Oneonta Sandstone in the Vicinity of Oxford, Chenango County, N. Y., p.11; Bishop, I. P. Salt Wells of Western New York, p.12-47; 14 plates to accompany Palaeontology of New York, v.5, pt2; 14 plates to accompany Palaeontology of New York, v.6.

6 (for 1886) 1887. 70p. 8pl. (lith.) maps. O.

Contents: Report of Geologist, p.3-9; Williams, S. G. Lower Helderberg Rocks of Cayuga Lake, p.10-12; Williams, S. G. Tully Limestone, its Distribution and its Known Fossils p.13-29; Clarke, J. M. Annelid Teeth from Lower Portion of Hamilton Group and from Naples Shales of Ontario County, N. Y., p.30-33. 1pl.; Clarke, J. M. Supposed Mastodon Bones Found at Attica, N. Y., p.34-35; Hall, James. Dictyospongiidae in New York, p.36-38; Hall, James. Note on the Discovery of a Skeleton of an Elk in Farmington, Ontario co., p.39; Hall, James. Descriptions of Fenestellidae of the Hamilton Group, p.41-70. 7pl.

7 (for 1887) no separate edition. *see* Mus. rep. 41 for contents.

8 (for 1888) 1889. 150p. illus. O.

Contents: Report of Geologist, p.5-56; Palaeontology of New York v.7, p. 5-23; List of Type Specimens of Devonian Crustacea described in Palaeontology of New York, v.7 in Possession of Museum, p.24-27; Palaeontology of New York v.8, p.27-42; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p.43-46; List of Microscopic Sections of Brachiopoda, p.46-47; List of Preparations for v.8, p.47-48; List of Plates of Brachiopoda, p.48-49; Schuchert, Charles. List of the Fossils in the Oriskany Sandstone of Maryland, New York and Ontario, p.50-54; Clarke, J. M. Genus Bronteus in the Chemung Rocks, p.57-59; Clarke, J. M. List of Species Constituting the Known Fauna and Flora of the Marcellus Epoch in New York State, p.60-61; Clarke, J. M. Hercynian Question, p.62-91; Bishop, I. P. Locality of Flint Implements in Wyoming County, N. Y., p.92-94; Catalogue of Specimens Representative of the Taconic System, p.95-98; List of Plates, Drawings, Names of Draughtsmen and Lithographers for Palaeontology of New York, v.5, pt1 and 2, v.7 and 8, p.99-103; Record of Locality Numbers, p.104-50.

9 (for 1889) 1890. 72p. O.

Contents: Report of Geologist, p.7-25; Palaeontology of New York, v.8, p.7-16; Geological Map of the State of New York, p.16-25; Hall, James. Fossil Dictyospongiidae of the Devonian and Carboniferous Formations, p.25-27; Schuchert, Charles. On Syringothyris, Winchell and its American Species, p.28-37; Schuchert, Charles. List of Species of the American Palaeozoic Orthis, Spirifera, Spiriferina and Syringothyris, p.38-55; Hall, James. New Forms of Dictyospongiidae from the Rocks of the Chemung Group, p.56-60; Record of Locality Numbers, p.61-72.

10 (for 1890) 1891. 155p. 7pl. (lith.) O.

Contents: Report of Geologist, p.7-25; Palaeontology of New York v.8, p.7-14; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p.15-18; Original Drawings for the Palaeontology of New York v.8, p.19; List of Figures for v.8, p.19-21; List of Microscopic Sections of Brachiopoda, p.22-23; Clarke, J. M. Report of Assistant Palaeontologist, p.29-31;

List of Accessions to the Department of Palaeontology, p.32-34; Hall, James. Descriptions of Bryozoa, p.35-57; Clarke, J. M. Genus *Acidaspis*, p.61-71. 3 pl.; Clarke, J. M. *Coronura aspectans*, p.79-83. 1 pl.; Clarke, J. M. *Terataspis grandis*, Hall, p.87-90. 1pl.; Hall, James. Preliminary Notice of *Newberria*, p.91-99. 2 pl.; Merrill, F. J. H. Quaternary Geology of the Hudson River Valley, p.103-9; Ries, Heinrich. Quaternary Deposits of the Hudson River Valley between Croton and Albany, with Notes on Brick Clays, and the Manufacture of Brick, p.110-55.

11 (for 1891) 1892. 300p. illus. 22pl. (lith.) map. O.

Contents: Report of Geologist, p.7-29; Livonia Salt Shaft, p.10-12; Palaeontology of New York, v.8, p.12-13; List of Preparations of Spirals, Loops and Hinge-plates for v.8, pt2, p.14-15; List of Genera of the Palaeozoic Brachiopoda, p.15-21; Additions to the Palaeontological collections, p.22-28; Clarke, J. M. Catalogue of the Collection of Geological and Palaeontological Specimens donated by the Albany Institute, p.33-53; Clarke, J. M. Report of Assistant Palaeontologist, p.54-55; Clarke, J. M. List of the Original and Illustrated Specimens in the Palaeontological Collections, pt1, Crustacea p.57-121; Record of Localities of Extra Limal Geological and Palaeontological Collections, p.122-23; Clarke, J. M. On *Cordania* a Proposed New Genus of Trilobites, p.124-27; Publications of Geologist, p.128-31; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, p.133-300, 22pl.

12 (for 1892) 1893. 142p. O.

Contents: Report of Geologist, p.7-41; Palaeontology of New York, v.8 pt1, p.14-22; Palaeontology of New York, v.8, pt2, p.23-25; Geological Map of the State, p.25-38; Geological Surveys and Maps of Parts of the State of New York, p.38-39; Clarke, J. M. Report of Assistant Palaeontologist, p.43-49; Additions to the Geological and Palaeontological Collections during 1891-92, p.50-53; Clarke, J. M. List of the Original and Illustrated Specimens in the Palaeontological Collections, pt2, Annelida and Cephalopoda p.55-104; Emerson, B. K. Two Boulders of a very Basic Eruptive Rock from the West Shore of Canandaigua Lake, p.105-9; Prosser, C. S. Devonian Section of Central New York along the Unadilla River, p.110-42.

13 (for 1893) 1894. v.1, 597p. illus. 4pl. (lith.) other pl. (phot.) maps. O. v.2, p.598-943. illus. pl.23-54 (lith.) maps. O.

Contents, v.1: Report of Geologist and Palaeontologist, p.7-8; Hall, James. Livonia Salt Shaft, its History and Geological Relations, p.11-20; Luther, D. D. Geology of the Livonia Salt Shaft, p.21-130; Clarke, J. M. Succession of the Fossil Faunas in the Section of the Livonia Salt Shaft, p.131-58; Clarke, J. M. New or Rare Species of Fossils from the Horizons of the Livonia Salt Shaft, p.159-89. 4pl.; Geological Survey of the State of New York, Reports, p.193-557; Darton, N. H. Relations of the Helderberg Limestones and Associated Formations in Eastern New York, p.197-228; Darton, N. H. Geology of Albany County, p.229-61; Nason, F. L. Economic Geology of Albany County, p.263-87; Darton, N. H. Geology of Ulster County, p.289-372; Nason, F. L. Economic Geology of Ulster County, p.373-406; Darton,

N. H. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties, p.407-29; Kemp, J. F. Geology of Essex County, p.431-72; Cushing, H. P. Geology of Clinton County, p.473-89; Smyth, C. H. jr. Geology of Four Townships in St Lawrence and Jefferson Counties, N. Y., p.491-515; Randall, F. A. Geology of Cattaraugus and Chautauqua Counties, p.517-27; Clarke, J. M. Field Work in Chenango County, p.529-57; Clarke, J. M. *comp.* List of Publications relating to the Geology and Palaeontology of the State of N. Y. 1876-93, p.559-97;

v.2, *Dep't of palaeontology*: Palaeontology of New York, v.8, pt2, p.603-8; Clarke, J. M. Evolution of the Genera of the Palaeozoic Brachiopoda, p.609-46; Descriptions of New Species figured in v.8, pt2 of Palaeontology of New York, p.647-57; Sherzer, W. H. Platynemic Man in New York, p.659-83; Simpson, G. B. Genera of Fenestellidae, p.685-727; Simpson, G. B. Glossary and Explanations of Specific Names of Bryozoa and Corals, p.729-47; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, pt2, p.749-943; pl.23-54.

- 14 (for 1894) 1895. 669p. illus. 44pl. (lith.) other pl. (phot.) maps. Q.

Contents: Staff of geologist, p.7; Report of Geologist and Palaeontologist, p.9-29; Preface to Palaeontology of New York, v.8, pt2, p.21-28; Geological Survey of the State of New York, Reports, p.31-125; Darton, N. H. Faulted Region of Herkimer, Fulton, Montgomery and Saratoga Counties, p.31-53; Beecher, C. E. & Hall, C. E. Field Notes on the Geology of the Mohawk Valley, with a map, p.54-56; Lincoln, D. F. Geology of Seneca County, p.57-125; Bernard, Felix. Principles of Palaeontology, ed. by J. M. Clarke, p.127-215; Ruedemann, Rudolf. Development and Mode of Growth of Diplograptus, p.217-49. 5 pl.; Girty, G. H. Revision of the Sponges and Coelenterates of the Lower Helderberg Group of New York, p.259-309. 7 pl.; Hall, James & Clarke, J. M. New Species of Brachiopoda described in Palaeontology of New York, v.8, pt1 and 2, p.323-72. 14pl; Simpson, G. B. Handbook of the Genera of the North American Palaeozoic Bryozoa, p.403-669. 30pl.

- 15 (for 1895) v.1, 1897, v.2, 1898. v.1, 738p. illus. pl. (phot.) maps. F⁴. v.2, p.739-984. illus. 47pl. (lith.) F⁴.

Contents: Report of Geologist and Palaeontologist, p.7-26; Geological Survey of the State of New York, Reports, p.27-698; Clarke, J. M. Stratigraphic and Faunal Relations of the Oneonta Sandstones and Shales, the Ithaca and the Portage Groups in Central New York, p.27-81; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt1, p.83-222; Luther, D. D. Stratigraphic Position of the Portage Sandstones in the Naples Valley and the Adjoining Region, p.223-36; Luther, D. D. Economic Geology of Onondaga County, p.237-303; Bishop, I. P. Geology of Erie County, p.305-92; Ries, Heinrich. Geology of Orange County, p.393-475; Smyth, C. H. jr. Crystalline Rocks of St Lawrence County, p.477-97; Cushing, H. P. Geology of Clinton County, p.499-573; Kemp, J. F. Geology of Essex County, p.575-614; Prosser, C. S. & Cumings, E. R. Sections and Thickness of

the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley, p.615-59; Smyth, C. H. jr. Talc Industry of St Lawrence County, p.661-71; Ries, Heinrich. Physical Tests of the Devonian Shales, p.673-98; Ruedemann, Rudolf. Discovery of a Sessile Conularia, p.699-728. 4 pl.; Clarke, J. M. Crustaceans from the Chemung Group, p.729-38.

v.2: Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae, pt1, p.741-984. 47pl.

16 (for 1896) 1899. 8+448p. illus. 32pl. (lith.) other pl. (phot.) maps. F⁴.

Contents: Report of Geologist and Palaeontologist, pref. p.7-8; Geological Survey of the State of New York, Reports, p.1-27, 171-226; Cushing, H. P. Boundary Between the Potsdam and Precambrian Rocks North of the Adirondacks, p.1-27; Clarke, J. M. Naples Fauna in Western N. Y., p.29-161. 9 pl.; Clarke, J. M. Early Stages of Certain Goniatites, p.163-69; Luther, D. D. Brine Springs and Salt Wells of New York and the Geology of the Salt District, p.171-226; Grabau, A. W. Faunas of the Hamilton Group of Eighteen-mile Creek and Vicinity in Western New York, p.227-339; Memoir 2, pt2, Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae, pt2, p.341-448. pl.48-70.

17 (for 1897) 1899. 564p. illus. pl. (phot.) maps. O.

Contents: Report of Geologist and Palaeontologist, p.5-7; Bishop, I. P. Petroleum and Natural Gas in Western New York, p.9-63; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt2, p.65-315; Eastman, C. R. Upper Devonian Fish Fauna of Delaware County, N. Y., p.317-27; Prosser, C. S. & Rowe, R. B. Stratigraphic Geology of the Eastern Helderbergs, p.329-54; Ries, Heinrich. Limestones of New York, p.355-467; Smyth, C. H. jr. Crystalline Rocks of the Western Adirondack Region, p.469-97; Kemp, J. F. & Newland, D. H. Geology of Washington, Warren and Parts of Essex and Hamilton Counties, p.499-553; Index, p.555-64.

18 (for 1898) 1899. 169p. illus. pl. (phot.) maps. O.

Contents: Report of Acting State Geologist and Paleontologist, p.5-7; Kümmel, H. B. The Newark or New Red Sandstone Rocks of Rockland County, p.9-50; Prosser, C. S. Sections of the Formations along the Northern End of the Helderberg Plateau, p.51-72; Cushing, H. P. Geology of Franklin County, p.73-128; Smyth, C. H. jr & Newland, D. H. Progress in Mapping Crystalline Rocks of Western Adirondack Region, p.129-35; Kemp, J. F., Newland, D. H. & Hill, B. F. Geology of Hamilton, Warren and Washington Counties, p.137-62; Index, p.163-69.

19 (for 1899) 1901. 158p. illus. pl. (phot.) maps. O.

Contents: Report of Geologist, p.7-16; Kemp, J. F. & Hill, B. F. Precambrian Formations in Parts of Warren, Saratoga, Fulton and Montgomery Counties, p.17-35; Cushing, H. P. Geology of Rand Hill and

Vicinity, Clinton Co., p.r37-82; Smyth, C. H. jr. Geology of the Crystal-line Rocks in the Vicinity of the St Lawrence River, p.r83-104; Bishop, I. P. Oil and Gas in Southwestern New York, p.r105-34; Nevius, J. N. Roofing Slate Quarries of Washington County, p.r135-50; Nevius, J. N. Emery Mines of Westchester County, p.r151-54; Index, p.r155-58.

20 (for 1900) 1902. 189p. illus. pl. (phot.) maps. O.

Contents: Report of Geologist, p.r7-22; Tests of Road Metal, p.r14-22; Cushing, H. P. Recent Geologic Work in Franklin and St Lawrence Counties, p.r23-82; Cushing, H. P. Pre-Cambrian Outlier at Little Falls, Herkimer Co., p.r83-95; Finlay, G. I. Preliminary Report of Field Work in the Town of Minerva, Essex Co., p.r96-102; Fairchild, H. L. Pleistocene Geology of Western New York, Report of Progress for 1900, p.r103-39; Eckel, E. C. The Quarry Industry in Southeastern New York, p.r141-76; Parsons, A. L. Recent Developments in the Gypsum Industry in New York State, p.r177-83; Index, p.r185-89.

Paleontologist's annual reports for 1899-1901. 1900-1902.

See fourth note under Geologist's annual reports.

Bound also with museum reports of which they form a part. Reports for 1899 and 1900 may be had for 20 cents each. Beginning with 1901 these reports will be issued as bulletins.

(for 1899) 1900. p.659-816. O.

Contents: Report of Paleontologist, p.661-78; Accessions, p.679-83; General Record of Localities of American Paleozoic Fossils belonging to State Museum, p.683-813; Index, p.815-16.

(for 1900) 1901. 124p. 4pl. (lith.). O.

Contents: Report of Paleontologist, p.5-25; Accessions, p.25-31; New Entries of Localities of Fossils, p.31-81; Clarke, J. M. Notes on Paleozoic Crustaceans, p.83-119. 4 pl.; Index, p.121-24.

(for 1901) 1902. p.419-693. 9pl. (lith.). O.

Contents: Report of Paleontologist, p.419-56; George Bancroft Simpson, p.457-60; Accessions, p.461-68; New Entries of Localities of Fossils, p.468-516; Clarke, J. M.; Ruedemann, R. & Luther, D. D. Contact Lines of Upper Siluric Formations on the Brockport and Medina Quadrangles, p.517-23; Clarke, J. M. Paleontologic Results of the Areal Survey of the Olean Quadrangle, p.524-28; van Ingen, Gilbert. Potsdam Sandstone of the Lake Champlain Basin, p.529-45; Ruedemann, Rudolf. Graptolite Facies of the Beekmantown Formation in Rensselaer County, N. Y., p.546-75; Ruedemann, Rudolf. Growth and Development of *Goniograptus thureaui* McCoy, p.576-92; White, David. Fossil Alga from the Chemung of New York, p.593-605; Clarke, J. M. A New Genus of Paleozoic Brachiopods, *Eunoa*, p.606-15; Luther, D. D. Stratigraphic Value of the Portage Sandstones, p.616-31; Ulrich, E. O. and Schuchert, Charles. Paleozoic Seas and Barriers in Eastern North America, p.633-63; Clarke, J. M. Indigene and Alien Faunas of the New York Devonian, p.664-72; Explanation of Plates, p.673-84; Index, p.685-93.

***Botanist's annual reports for 1867-1901. 1869-1902.**

Bound also with museum reports 21-55 of which they form a part; the first botanist's report appeared in the 21st museum report and is numbered 21. Reports 21-24, 29, 31-41 were not published separately.

Separate reports 25-28, 30, 42-50 and 52 (Museum bulletin 25) are out of print. Report 51 may be had for 40 cents; 53 for 20 cents; 54 for 50 cents; 55 (Museum bulletin 54) for 40 cents. Beginning with 1901, these reports will be issued as bulletins.

Descriptions and illustrations of edible, poisonous and unwholesome fungi of New York have been published in volumes 1 and 3 of the 48th museum report and in volume 1 of the 49th, 51st, 52d, 54th and 55th reports. The descriptions and illustrations of edible and unwholesome species contained in the 49th, 51st and 52d reports have been revised and rearranged, and combined with others more recently prepared and constitute *Museum memoir 4*.

bContents: Order Agaricini, 23, p.66-127; Genus Boletus, 23, p.127-33; Genus Clavaria, 24, p.104-5; Genus Aecidium, 24, p.105-8; Gelatinosporium *gen. nov.*, 25, p.84-106; Synopsis of New York Puccinia, 25, p.110-23; Report on Fungi, 27, p.74-80; Parasitic Fungi of New York and their Supporting Plants, 29, p.71-82; New York Species of Helvella, 31, p.59-60; New York Species of Phallus, 32, p.37-43; Glomerularia *gen. nov.*, 32, p.43-52; New York Species of Lycoperdon, 32, p.58-72; New York species of Amanita, 33, p.38-49; Report on Fungi, 34, p.24-36; New York Carices, 35, p.147-49; New York Species of Lepiota, 35, p.150-64; New York Species of Psalliota, 36, p.41-49; New York Species of Lactarius, 38, p.111-33; New York Species of Pluteus, 38, p.133-38; New York Species of Pleurotus, Claudopus and Crepidotus, 39, p.58-73; Fungi Destructive to Wood, 41, p.86-94; New York Species of Clitopilus, 42, p.135-42 (*sep. ed.* p.39-46); New York Species of Armillaria, 43, p.86-91 (*sep. ed.* p.40-45); Fungi Destructive to Wood, 43, p.91-93 (*sep. ed.* p.45-47); New York Species of Tricholoma, 44, p.150-76 (*sep. ed.* p.38-64); Fungi of Maryland, 44, p.176-87 (*sep. ed.* p.64-75); New York Species of Omphalia, 45, p.92-102 (*sep. ed.* p.32-42); New York Species of Pluteolus, 46, p.138-41 (*sep. ed.* p.58-61); New York Species of Galera, 46, p.141-49 (*sep. ed.* p.61-69); List of New York Fungi represented at the World's Columbian Exposition at Chicago, 47, p.169-72 (*sep. ed.* p.43-46); Preliminary List of Hymenomycetous Fungi inhabiting our Principal Coniferous Forest Trees, 47, p.172-74 (*sep. ed.* p.46-48); New York Species of Carex, 48, 1:118-202 (*sep. ed.* p.20-104); Edible and Poisonous Fungi of New York, 48, 1:203-316, 44pl. in 48. v.3 (*sep. ed.* p.105-241. 44pl.); New York Species of Collybia, 49, 1:46-69 (*sep. ed.* p.32-55); Edible Fungi, 49, 1:70-78, 5pl. (*sep. ed.* p.56-62); Unwholesome Fungi, 49, 1:79, 1pl. (*sep. ed.* p.65); New York Species of Flammula, 50, 1:133-42; Edible Fungi, 51, 1:300-12. 7pl.; List of Changed Names, 52, 1:628-42; Plants of the Summit of Mt Marcy, 52, 1:657-73; Edible Fungi, 52, 1:673-82, 5pl.; Plants of Bonaparte Swamp, Lewis County, 53, 1:858-61; Edible Fungi, 54, 1:173-86 (1st paging), 8pl.; Edible Fungi, 55, 1:966-82, 5pl.

*a*Papers entitled *Facts and Observations touching the Flora of the State of New York* were published in Mus. rep. 18, 19 and 20, the last being by C. H. Peck, the present state botanist.

b Not including Plants added; Contributors and their contributions; Species not before reported; Remarks and observations, which appear in each report.

Entomologist's annual reports on the injurious and other insects of the State of New York for 1882-1901. 1882-1902.

Reports 3-17 bound also with museum reports 40-46, 48-55 of which they form a part. Beginning with 1898 these reports have been issued as bulletins.

Report	Price	Report	Price	Report	Price
1 (for 1881) 1882	\$.50	7 (for 1890) 1891	\$.20	13 (for 1897) 1898	\$.10
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4 (for 1887) 1888	o. p.	10 (for 1894) 1895	.35	16 (for 1900) 1901 ("	.25
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Reports 2, 8-12 may also be obtained bound separately in cloth at 25c in addition to the price given above.

For contents of reports 1-13, see Mus. bul. 24.

Museum bulletins.^a O. 1887-1902. *To advance subscribers, \$2 a year, or 50c a year for those of any one division: (1) geology, including economic geology, general zoology, archeology and mineralogy, (2) paleontology, (3) botany, (4) entomology.*

Bulletins are also found with the annual reports of the museum as follows:

Bulletins	Report	Bulletins	Report	Bulletins	Report
12-15	48, v. 1	20-25	52, v. 1	35-36	54, v. 2
16-17	50 "	26-31	53 "	37-44	" v. 3
18-19	51 "	32-34	54 "	45-48	" v. 4

The letter and figure in parenthesis after the bulletin number indicate the division and the division and series number. G=geology, EG=economic geology, Z=general zoology, A=archeology, M=mineralogy, P=paleontology, B=botany, E=entomology, Misc=miscellaneous.

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- (Z1) Marshall, W. B. Preliminary List of New York Unionidae. 20p. Mar. 1892. 5c.
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- (EG1) Smock, J. C. Building Stone in the State of New York. 152p. Mar. 1888. *Out of print.*
- (M1) Nason, F. L. Some New York Minerals and their Localities. 20p. 1pl. (phot.) Aug. 1888. 5c.
- (E1) Lintner, J. A. White Grub of the May Beetle. 32p. il. Nov. 1888. 10c.
- (E2) ——— Cut worms. 36p. il. Nov. 1888. 10c.

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- (EG2) Smock, J. C. First Report on the Iron Mines and Iron Ore Districts in New York. 6+70p. map. June 1889. *Out of print.*
- (B2) Peck, C. H. Boleti of the United States. 96p. Sep. 1889. [50c]

^a The covers of bulletins bound in paper are counted in giving the number of pages.

- 9 (Z2) Marshall, W. B. Beaks of Unionidae Inhabiting the Vicinity of Albany, N. Y. 24p. 1pl. (lith.) Aug. 1890. 10c.
 10 (EG3) Smock, J. C. Building Stone in New York. 210p. map. tab. Sep. 1890. 40c.

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- 18 (A2) Beauchamp, W. M. Polished Stone Articles Used by the New York Aborigines. 104p. 35pl. (phot.) Nov. 1897. 25c.
 19 (G2) Merrill, F. J. H. Guide to the Study of the Geological Collections of the New York State Museum. 162p. 119pl. (phot.) map. Nov. 1898. 40c.

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Supplement to 14th report of the state entomologist.

- 25 (B3) Peck, C. H. Report of the State Botanist 1898. 76p. 5pl. (lith.) Oct. 1899. *Out of print.*

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——— Dictyonine Hexactinellid Sponges from the Upper Devonian of New York.

——— The Water Biscuit of Squaw Island, Canandaigua Lake, N. Y.

Simpson, G. B. Preliminary Descriptions of New Genera of Paleozoic Rugose Corals.

Loomis, F. B. Siluric Fungi from Western New York.

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- 49 (P5) Ruedemann, Rudolf; Clarke, J. M. & Wood, Elvira. Paleontologic Papers 2. 240p. 13pl. (lith.) Dec. 1901. 40c.
Contents: Ruedemann, Rudolf. Trenton Conglomerate of Rysedorph Hill.
 Clarke, J. M. Limestones of Central and Western New York Interbedded with Bituminous Shales of the Marcellus Stage.
 Wood, Elvira. Marcellus Limestones of Lancaster, Erie Co. N. Y.
 Clarke, J. M. New Agelacrinites.
 —Value of *Amnigenia* as an Indicator of Fresh-water Deposits During the Devonian of New York, Ireland and the Rhineland.
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 Paulmier, F. C. Lizards, Tortoises and Batrachians of New York.
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- 54 (B5) Peck, C. H. Report of the State Botanist 1901. 58p. 7pl. (lith.) Nov. 1902. 40c.
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- 63 (P7) Clarke, J. M. Stratigraphy of Canandaigua and Naples Quadrangles; 2 maps. *In press.*
- 64 (E17) Felt, E. P. 18th Report of the State Entomologist 1902. 110p. 6pl. May 1903. 20c.
- 65 (P8) Clarke, J. M. Catalogue of Type Specimens of Paleozoic Fossils in the New York State Museum. 848p. May 1903. \$1.20, cloth.
- 66 (Misc2) Ellis, Mary. Index to Publications of the New York State Natural History Survey and New York State Museum. 1837-1902. 418p. June 1903. 75c, cloth.
- 67 (B6) Peck, C. H. Report of the State Botanist 1902. 196p. 5pl. May 1903. 50c.
- 68 (E18) Needham, J. G. and others. Aquatic Insects in New York State. *In press.*
- 69 (P9) Clarke, J. M. Report of the State Paleontologist 1902. *In press.*
Felt, E. P. & Joutel, L. H. Monograph of the Genus *Saperda*. *In press.*
Kellogg, James L. Feeding Habits and Growth of *Venus mercenaria*. *In press.*
- Museum memoirs. Q. 1889-1902.
- 1 Beecher, C. E. & Clarke, J. M. Development of Some Silurian Brachiopoda. 96p. 8pl. (lith.) Oct. 1889. *Out of print.*

2 Hall, James & Clarke, J. M. Palaeozoic Reticulate Sponges, constituting the Family Dictyospongidae. 350p. il. 70pl. (lith.). 1898. \$1, cloth.

3 Clarke, J. M. The Oriskany Fauna of Becraft Mountain, Columbia Co. N. Y. 128p. 9pl. (lith.) Oct. 1900. 80c.

4 Peck, C. H. New York Edible Fungi, 1895-99. 106p. 25pl. (lith.) Nov. 1900. 75c.

This includes revised descriptions and illustrations of fungi reported in the 49th, 51st and 52d reports of the state botanist.

5 Clarke, J. M. & Ruedemann, Rudolf. The Guelph Formation and Fauna of Western New York. *In press*.

6 Clarke, J. M. Naples Fauna in Western New York. *In press*.
Felt, E. P. Insects Affecting Park and Woodland Trees. *In press*.

Natural history of New York. 30v. il. pl. (lith.) maps. Q. 1842-94.

The annual reports of the early natural history survey, 1837-41 are out of print. They were originally published as Assembly doc. 1837, no. 161; 1838, no. 200; 1839, no. 275; 1840, no. 50; 1841, no. 150.

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Division 3 Mineralogy. Beck, Lewis C. Mineralogy of New York; comprising detailed descriptions of the minerals hitherto found in the State of New York, and notices of their uses in the arts and agriculture. il. pl. sq. Q. 1842. *Out of print*.

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Division 6 Paleontology. Hall, James. *Palaeontology of New York*. 8v. il. pl. sq. Q. 1847-94. *Bound in cloth.*

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^aUniversity handbooks. 7½x12½ cm. 1893-1902. In quantities, 1 cent for each 16 pages or less. Single copies postpaid as below.

H5 New York State Museum. 14p. 2c.

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H16 Entomology. 16p. 2c.

H17 Economic Geology. *In preparation.*

H18 Insecticides and Fungicides. 20p. 3c.

Maps. Merrill, F. J. H. Economic and Geologic Map of the State of New York; issued as part of Museum bulletin 15 and the 48th museum report, v. 1. 59x67 cm. 1894. Scale 14 miles to 1 inch. *Out of print.*
New edition in preparation.

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The lower Hudson sheet, geologically colored, comprises Rockland, Orange, Dutchess, Putnam, Westchester, New York, Richmond, Kings, Queens and Nassau counties, and parts of Sullivan, Ulster and Suffolk counties; also northeastern New Jersey and part of western Connecticut.

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 v.2 pt2 Birds. 12+380p. 141pl. 1844.
 Colored plates.
 v.3 pt3 Reptiles and Amphibia. 7+98p. pt4 Fishes. 15+415p. 1842.
 pt3-4 bound together.
 v.4 Plates to accompany v.3. Reptiles and amphibia, 23pl. Fishes, 79pl. 1842.
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 v.5 pt5 Mollusca. 4+271p. 40pl. pt6 Crustacea. 70p. 13pl. 1843-44.
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 - Observations on the Genera *Platystoma* and *Strophostylus*, p.20-22.
 - Observations on the Genus *Nucleospira*, p.23-34.
 - Observations on the Genus *Eatonia*, p.34-37.
 - Observations on the Genus *Rensselaeria*, p.38-41.
 - Observations on the Genus *Camarium*, p.42-44.
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 b Preliminary Notice of the Fauna of the Potsdam Sandstone, with Remarks upon the Previously Known Species of Fossils and Descriptions of Some New Ones from the Sandstone of the Upper Mississippi Valley, p.119-209.
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 c Descriptions of some New Species of Crinoidea and other Fossils from the Lower Silurian Strata, principally of the Age of the Hudson River Group, p.304.
 d Descriptions of Bryozoa and Corals from the Lower Helderberg Group of New York, p.304.
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d Title given here, but paper was published in Mus. rep. 26, p.93-116.

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- — *revised*. Mus. rep. 32 (for 1878) 1879. p.141-76.
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Map of Long Island, 25.5 x 11.5cm.
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- Kemp, James Furman.** Preliminary Report on the Geology of Essex County. Geol. rep. 13 (for 1893) 1894. p.431-72. maps (uncolored). *Same*, Mus. rep. 47 (for 1893) 1894. p.625-66. maps (uncolored).
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Contains a bibliography.
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Also published separately.
Map of Essex county (uncolored).
- Geology of Moriah and Westport Townships, Essex County, N. Y. Mus. bul. 14. 1895. p.323-55, 7pl. (phot.) maps (uncolored). *Same*, Mus. rep. 48 (for 1894) 1895. 1:323-55 (2d paging). 7pl. (phot.) maps (uncolored).
Map of the Mineville district, Essex co., 30 x 33cm.
Geologic map of Moriah and Westport townships, Essex co., 33 x 44cm.
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^aFor biography and bibliography of Hough, see Regents rep. 99, p.300-47.

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Map of New York showing salt wells and mines and gypsum quarries, 38 x 55cm.
Map of western salt field of New York, 52.5 x 32.5cm.
Chart of well sections.
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- Mineral Resources of New York State. Mus. bul. 15. 1895. p.359-595. maps. *Same*, Mus. rep. 48 (for 1894) 1895. 1:359-595 (2d paging). maps. Economic and geologic map of New York State, 22 x 35cm. Geologic map of a part of southeastern New York, 58 x 66cm.
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- Report on Articles given to the Indian Collection. Mus. rep. 2 (for 1848) 1849. p.84-91; 3 *rev. ed.* (for 1849) 1850. p.63-95. illus. 18pl.
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- Nason, Frank L.** Some New York Minerals and their Localities. Mus. bul. 4. 1888. 19p. 1pl. (phot.)
- Economic Geology of Albany County. Geol. rep. 13 (for 1893) 1894. p.263-87. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.457-81. pl. (phot.) Also published separately.
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- Wilson, W. D.** Local Climatology. Mus. rep. 20 (for 1866) 1867. p.63-106.
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- Winkler, Charles.** Meteorological Observations at Milwaukee, Wis. Mus. rep. 20 (for 1866) 1867. p.122-23.
- Wood, Elvira.** Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.139-81. pl.9.
- Woodworth, Jay Backus.** Pleistocene Geology of Portions of Nassau County and Borough of Queens. Mus. bul. 48. 1901. p.617-70. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 4:617-70, pl. (phot.) maps.
Sketch map of a part of Long Island, 22.5 x 18.5cm.
Map of the Pleistocene geology of the Oyster Bay and Hempstead quadrangles on Long Island, 71 x 35cm.
- The Northumberland Volcanic Plug. Geol. rep. 21 (for 1901). *In press*.
- On the Sedentary Impression of the Animal whose Trail is known as Climactichnites. Pal. rep. (for 1902). *In press*.
- Wright, Berlin H.** Notes on the Geology of Yates County, N. Y. Mus. rep. 35 (for 1881) 1884. p.195-206. pl.15-16. map 24x21cm. (pl.16A).
- Wright, S. Hart.** The Aboriginal Work on Bluff Point, Yates County, N. Y. Mus. rep. 35 (for 1881) 1884. p.193-94. pl.14.
- Young, D. B.** List of Coleoptera taken at Newport, Herkimer co., N. Y. Ent. rep. 18 (for 1902). Mus. bul. 64. p.153-61. *In press*.

SUBJECT INDEX

This is mainly an index to geologic, mineralogic and paleontologic publications, including papers in administrative reports of the museum. For index to Entomologist's reports 1-13, *see* Mus. bul. 24. For index to Botanist's reports 22-38, *see* Mus. rep. 41, p.94-122; reports 39-48, *see* Mus. rep. 50, 1:143-59.

Descriptions of rock formations are indexed; also subjects relating to economic geology, names of minerals, names of classes of animals and fossils, ordinal and English names of insects and generic names of plants. A special index to genera and species of fossils follows this.

Geologic formation names are indexed under terms used in the text followed by synonyms in curves, with *See also* references to synonyms and related formations at the end of entries on a subject. The name of the geologist first using the term is indicated by a footnote.

As a rule geographic divisions smaller than counties are not included in the index; there are, however, a few exceptions.

Unless otherwise specified, pl. refers to lithographic plates only.

For other explanatory matter, and list of abbreviations, *see* p.240.

Aborigines. Cheney. Illustrations of the Ancient Monuments in Western New York. Mus. rep. 13 (for 1859) 1860. p.37-52. 24pl. map.

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See also Indians.

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Hall. Acephala of Clinton Group. Pal. N. Y. 1852. 2:83-88.

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Achnite, *see* Acmite.

Acidulous springs, *see* Carbonated springs.

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Additions to museum collections, *see* Batrachia; Birds; Botanic collection; Crustacea; Economic geology; Entomologic collection; Fishes; Geologic collection; Historical and antiquarian collection; Library; Mammals; Mineralogic collection; Mollusca; Paleontologic collection; Reptiles; Zoologic collection.

Adirondack pass, *see* Indian pass.

- Adirondacks.** Colvin. Winter Fauna of Mount Marcy. Alb. Inst. Trans. 1879. 9:11-26.
- Cushing. Sequence of Geologic Events. Geol. rep. 16 (for 1896) 1899. p.8-15. *Same*, Mus. rep. 50 (for 1896) 1899. 2:8-15.
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- Emmons. Annual Report of the Second Geological District. Assembly doc. 1837, no.161, p.97-153 (ed. 2, p.99-155); 1838, no.200, p.185-252; 1839, no.275, p.201-39; 1840, no.50, p.259-353; 1841, no.150, p.113-36.
- First report describes reconnaissance of east and west portions of Adirondacks; second report chiefly filled with details of St Lawrence and Essex counties, also many details about iron mines, and an account of his ascent of Mt Marcy; third report describes Hamilton, Clinton and Warren counties; fourth report takes up the iron ores at length, specially those at Lake Henderson; fifth report describes Hamilton, Essex and Franklin counties, and iron ores of Clinton and Franklin.
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- Emmons. Visit to the Mountains of Essex. Geol. rep. 2d dist. (for 1837) 1838. p.240-50.
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- Mather. Albany Mineral Springs. Geol. N. Y. pt.1. 1843. p.101-3.
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Preliminary geologic map of Albany county, 78x74.5cm.

^aFirst use of term.

Albany county (continued)

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- Mather. Dip and Strike of Rocks. Geol. N. Y. pt1. 1843. p.620-21.
- Merrill. Hudson River Bluestone Quarrymen. Mus. bul. 15. 1895. p.458. *Same*, Mus. rep. 48 (for 1894) 1895. 1:458 (2d paging).
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- Stratigraphic map showing the subdivisions of the Hudson river beds in parts of Albany and Rensselaer counties, 51.5x24.5cm.
- See also Helderbergs.*
- Albion quadrangle.** Clarke, Ruedemann & Luther. Contact Lines of Upper Siluric Formations. Mus. bul. 52. 1902. p.519-21.
- Albite.** Beck. Albite. Min. N. Y. 1842. p.342. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.138.
- Emmons. Albite. Ag. N. Y. 1846. 1:39.
- Merrill. Albite. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
- Nason. Albite. Mus. bul. 4. 1888. p.9.
- Whitlock. Albite. Mus. bul. 58. 1902. p.89-90.
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- Hunt. Allanite. Mus. rep. 21 (for 1867) 1871. p.84.
- Mather. Highlandite: Allanite. Geol. N. Y. pt1. 1843. p.512-13.
- Allegany county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.55.
- Bishop. Oil and Gas in. Geol. rep. 19 (for 1899) 1901. p.r107-13. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r107-13.
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- Anatase,** *see* *Octahedrite*.
- Andalusite.** Beck. *Andalusite*. Min. N. Y. 1842. p.362-63.
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- Hall. *Articulata of Potsdam Sandstone*. Mus. rep. 16 (for 1862) 1863. p.136.
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- Hall. *Tubicular Annelida*. Pal. N. Y. 1888. v.7. supplement, p.8-24. pl.115-16a.
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- Wood. *Annelida of Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y.* Mus. bul. 49. 1901. p.155.
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- Anorthite.** Merrill. *Anorthite*. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
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See also Gabbros; Hypersthene rock.

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- For dates of reports, *see* List of publications, p.264.
- Arachnida (paleozoic)** *see* Tracheata.
- Aragonite.** Beck. Arragonite. Min. N. Y. 1842. p.235-37.
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- See also* Crystalline rocks.
- Archeology,** *see* Aborigines; Historical and antiquarian collection; Indians; Platycnemic man.
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- Whitlock. Argentite. Mus. bul. 58. 1902. p.53.
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- Ries. Becraft Limestone. Geol. rep. 17 (for 1897) 1899. p.364. *Same*, Mus. rep. 51 (for 1897) 1899. 2:364.
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— — — *revised*. Mus. bul. 44. 1901. p.770. *Same*, Mus. rep. 54 (for 1900) 1902. 3:770.
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- Bellvale flags.** Ries. Bellvale Flags of Orange County. Geol. rep. 15 (for 1895) 1897. p.404. *Same*, Mus. rep. 49 (for 1895) 1898. 2:404.
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a First use of term.

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- Binghamton.** Smock. Stone Construction in. Mus. bul. 10. 1890. p.337-38.
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- Emmons. Birdseye Limestone. Geol. N. Y. pt2. 1842. p.107-10, 168. Ag. N. Y. 1846. 1:122.
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Ries. Birdseye Limestone of Jefferson County. Mus. bul. 44. 1901. p.789-90. *Same*, Mus. rep. 54 (for 1900) 1902. 3:789-90.

Ries. Birdseye Limestone of Lewis County. Mus. bul. 44. 1901. p.790-91. *Same*, Mus. rep. 54 (for 1900) 1902. 3:790-91.

Smock. Birdseye Limestone. Mus. bul. 3. 1888. p.21; 10. 1890. p.210-11.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.426. *Same*, Mus. rep. 48 (for 1894) 1895. 1:426 (2d paging).

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Clinton group (*continued*)

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See also Anthozoa; Corals; Hydrozoa.

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Map of Cohoes falls and vicinity (uncolored) 67x42cm.

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^aFirst use of term in report of paleontologist to secretary of Regents. Regents bulletin 59. 1903. p.42.

^bFirst use of term in original publication of this article. Science. 1899. new ser. 10:877.

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- Agrilus ruficollis*. Ent. rep. 6, p.123-25. *Same*, Mus. rep. 43, p.123-25.
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^aFirst use of term.

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*a*Term first defined by Bell. Described by Logan. Can. Geol. Surv. 1863. p. 298-344.

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Pt 1 Geologic map of parts of Chenango, Madison, Otsego, Schoharie and Albany counties, 58x33.5cm.

Pt 2 Map showing distribution of middle and upper Devonian rocks in central-eastern New York, 61x38.5cm.; map of Delaware county, by W. L. Fisher, 34x32cm.

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^aVanuxem. Hamilton Group. Geol. rep. 3d dist. (for 1839) 1840. p.380. Geol. N. Y. pt3. 1842. p.150-63.

Vanuxem. Hamilton Group in Broome County. Geol. N. Y. pt3. 1842. p.295.

Vanuxem. Hamilton Group in Cayuga County. Geol. N. Y. pt3. 1842. p.288-89.

Vanuxem. Hamilton Group in Chenango County. Geol. N. Y. pt3. 1842. p.292-93.

Vanuxem. Hamilton Group in Cortland County. Geol. N. Y. pt3. 1842. p.290.

Vanuxem. Hamilton Group in Madison County. Geol. N. Y. pt3. 1842. p.275-77.

Vanuxem. Hamilton Group in Oneida County. Geol. N. Y. pt3. 1842. p.264.

Vanuxem. Hamilton County in Onondaga County. Geol. N. Y. pt3. 1842. p.285.

Vanuxem. Hamilton Group in Otsego County. Geol. N. Y. pt3. 1842. p.254.

Vanuxem. Hamilton Group in Tompkins County. Geol. N. Y. pt3. 1842. p.298.

Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.151-53, 158-63, 306.

See also Hamilton shales; Marcellus shales; Tully limestone.

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^aFirst use of term.

Hamilton shales (*continued*)

- Darton. Hamilton Shales of Ulster County. Geol. rep. 13 (for 1893) 1894. p.300-1. *Same*, Mus. rep. 47 (for 1893) 1894. p.494-95.
- Emmons. Hamilton Shales. Ag. N. Y. 1846. 1:183-86.
- Grabau. Hamilton Shales. Geol. rep. 16 (for 1896) 1899. p.235-36. *Same*, Mus. rep. 50 (for 1896) 1899. 2:235-36.
- Lincoln. Hamilton Shales of Seneca County. Geol. rep. 14 (for 1894) 1895. p.93-95. *Same*, Mus. rep. 48 (for 1894) 1895. 2:93-95.
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- Luther. Hamilton Shales of the Salt District. Geol. rep. 16 (for 1896) 1899. p.217-19. *Same*, Mus. rep. 50 (for 1896) 1899. 2:217-19.
- Merrill. Hamilton Shale. Mus. bul. 19. 1898. p.163. *Same*, Mus. rep. 51 (for 1897) 1899. 1:163.
- Ries. Hamilton Shale. Geol. rep. 15 (for 1895) 1897. p.693-94. *Same*, Mus. rep. 49 (for 1895) 1898. 2:693-94.
- — — *revised*. Mus. bul. 35. 1900. p.831-34. *Same*, Mus. rep. 54 (for 1900) 1902. 2:831-34.
- Harlem quadrangle.** Woodworth. Harlem Quadrangle. Mus. bul. 48. 1901. p.648-50. *Same*, Mus. rep. 54 (for 1900) 1902. 4:648-50.
- Harmatome.** Beck. Harmatome. Min. N. Y. 1842. p.451.
- Harrison diorite.** Eckel. Quarries. Geol. rep. 20 (for 1900) 1902. p.165-66. *Same*, Mus. rep. 54 (for 1900) 1902. 1:165-66.
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- Hartz mountains.** Clarke. The Hercynian Question. Geol. rep. 8 (for 1888) 1889. p.62-91. *Same*, Mus. rep. 42. (for 1888) 1889. p.408-37.
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- Emmons. Helderberg Series. Geol. N. Y. pt2. 1842. p.100, 429.
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- Hall. Helderberg Series. Geol. N. Y. pt4. 1843. p.18, 117-76.
- Mathew. Helderberg Limestone Group. Geol. rep. 1st dist. (for 1839) 1840. p.212, 236-46; (for 1840) 1841. p.85-89.
- Mather. Helderberg Division. Geol. N. Y. pt1. 1843. p.324-53.
- Mather. Fossils. Geol. N. Y. pt1. 1843. p.324, 333, 337-53.
- Mather. Economical Applications. Geol. N. Y. pt1. 1843. p.326-30.
- Vanuxem. Helderberg Division. Geol. N. Y. pt3. 1842. p.15-16, 94-146.
- Helderberg limestones** (Coeymans; Becraft; Scutella; Lower Helderberg; Lower Pentamerus).
- Clarke. Hercynian Question. Geol. rep. 8 (for 1888) 1889. p.62-91. *Same*, Mus. rep. 42 (for 1888) 1889. p.408-37.
- Clarke. Devonian Age of the Helderbergian Fauna and the Base of the Devonian System in New York. Mus. mem. 3. 1900. p.82-98. *Same*, Mus. rep. 53 (for 1899) 1901. 2:82-98.
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- Ries. Lower Helderberg Limestones. Mus. bul. 44. 1901. p.759-64. *Same*, Mus. rep. 54 (for 1900) 1902. 3:759-64.
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- Ries. Lower Helderberg Limestone of Cayuga County. Mus. bul. 44. 1901. p.773-74. *Same*, Mus. rep. 54 (for 1900) 1902. 3:773-74.
- Ries. Helderberg Limestone of Genesee County. Mus. bul. 44. 1901. p.783-85. *Same*, Mus. rep. 54 (for 1900) 1902. 3:783-85.
- Ries. Lower Helderberg Limestone of Greene County. Mus. bul. 44. 1901. p.786. *Same*, Mus. rep. 54 (for 1900) 1902. 3:786.
- Ries. Helderberg Limestones of Herkimer County. Geol. rep. 17 (for 1897) 1899. p.438. *Same*, Mus. rep. 51 (for 1897) 1899. 2:438.
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- Helderbergian (Lower Helderberg).** Clarke & Schuchert. Helderbergian. Mus. mem. 3. 1900. p.10. *Same*, Mus. rep. 53 (for 1899) 1901. 2:10.
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- Hell Gate.** Meriam. Description of the Means employed to remove the Rocks at Hurlgate by Submarine Engineering. Mus. rep. 5 (for 1851) 1852. p.59-64. illus.
- Hematite.** Beck. Specular Iron Ore. Min. rep. (for 1836) 1837. p.28-32 (ed. 2, p.30-34); (for 1838) 1839. p.46. Min. N. Y. 1842. p. 23-26, 385-86.
- Conrad. Red Oxide of Iron and Associated Strata. Geol. rep. 3d dist. (for 1836) 1837. p.176-77 (ed. 2, p.178-79).
- Emmons. Specular Oxide of Iron. Geol. rep. 2d dist. (for 1837) 1838. p.206-8. Geol. N. Y. pt2. 1842. p.92-98.
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- Salisbury. Analysis of a Specimen of Hematitic Iron Ore. Mus. rep. 4 (for 1850) 1851. p.111.
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- For dates of reports, *see* List of publications, p.264.
- Fitch. Catalogue with References and Descriptions of the Insects collected and arranged for the State Cabinet of Natural History. Mus. rep. 4 (for 1850) 1851. p.43-69.
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- Lintner. Species Treated. Ent. rep. 1 (for 1881) 1882. p.264-88.
- — — Ent. rep. 2 (for 1882 and 1883) 1885. p.144-87.
- — — Ent. rep. 3 (for 1886) 1887. p.107-28. *Same*, Mus. rep. 40 (for 1886) 1887. p.107-28.
- — — Ent. rep. 4 (for 1887) 1888. p.107-21, 156-58. *Same*, Mus. rep. 41 (for 1887) 1888. p.227-41, 276-78.
- — — Ent. rep. 5 (for 1888) 1889. p.242-57. *Same*, Mus. rep. 42 (for 1888) 1889. p.242-57.
- — — Ent. rep. 6 (for 1889) 1890. p.137-48. *Same*, Mus. rep. 43 (for 1889) 1890. p.137-48.
- — — Ent. rep. 7 (for 1890) 1891. p.296-301, 317-18. *Same*, Mus. rep. 44 (for 1890) 1892. p.296-301; 317-18.
- — — Ent. rep. 8 (for 1891) 1893. p.152-55. *Same*, Mus. rep. 45 (for 1891) 1892. p.152-55.

Hemiptera (*continued*)

- Ent. rep. 9 (for 1892) 1893. p.315-29. *Same*, Mus. rep. 46 (for 1892) 1893. p.315-29.
- Ent. rep. 10 (for 1894) 1895. p.420-39. *Same*, Mus. rep. 48 (for 1894) 1895. 1:420-39 (1st paging).
- Ent. rep. 11 (for 1895) 1896. p.198-233. *Same*, Mus. rep. 49 (for 1895) 1897. 1:198-233.
- Ent. rep. 12 (for 1896) 1897. p.272-98. *Same*, Mus. rep. 50 (for 1896) 1898. 1:272-98 (1st paging).
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- Say. *Heteropterus Hemiptera*. Ag. Soc. Trans. 17 (for 1857) 1858. p.754-812.

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The following list of species includes only the more important accounts by Lintner in Ent. rep. 1-13; by Felt in Ag. Soc. Trans. 59, Forest, Fish and Game Com. reports.

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- Blissus leucopterus*. Ent. rep. 2, p.148-64.
- Chermes pinicorticis*. Forest, Fish and Game Com. rep. 7. *In press*.
- Cicada septendecim*. Ent. rep. 12, p.272-89. *Same*, Mus. rep. 50, 1:272-89 (1st paging).
- Lygus pratensis*. Ent. rep. 13, p.351-57. *Same*, Mus. rep. 51, 1:351-57.
- Poecilocapsus lineatus*. Ent. rep. 1, p.271-81.
- Psylla pyricola*. Ent. rep. 9, p.317-29. *Same*, Mus. rep. 46, p.317-29.
- Hemiptera. Scale insects.** Felt. Experiments on Scale Insects. Ent. rep. 16 (for 1900) 1901. p.967-88 (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:967-88.
- Ent. rep. 17 (for 1901) 1902. p.761-75. (Mus. bul. 53).
- Ent. rep. 18 (for 1902). p.126-43. *In press*.
- Felt. Scale Insects of Importance and a List of the Species in New York. Mus. bul. 46. 1901. p.289-377. 7pl. (lith.) Spl. phot. *Same*, Mus. rep. 54 (for 1900) 1902. 4:289-377. 7pl. (lith.) Spl. (phot.)
- Lintner. Species Treated. Ent. rep. 4 (for 1887) 1888. p.114-20. *Same*, Mus. rep. 41 (for 1887) 1888. p.234-40.
- Ent. rep. 6 (for 1889) 1890. p.141-47. *Same*, Mus. rep. 43 (for 1889) 1890. p.141-47.
- Ent. rep. 11 (for 1895) 1896. p.200-33. *Same*, Mus. rep. 49 (for 1895) 1897. 1:200-33.
- Ent. rep. 12 (for 1896) 1897. p.292-98. *Same*, Mus. rep. 50 (for 1896) 1898. 1:292-98 (1st paging).

Species

The following list of species includes only the more important accounts by Lintner in Ent. rep. 1-13, Mus. bul. 13; by Felt in Ent. rep. 14-18, Ag. Soc. Trans. 59, Forest, Fish and Game Com. reports, Mus. bul. 20, 27, 46.

- Aspidiotus ancylus*. Putnam's scale insect. Mus. bul. 46, p.326-30. *Same*, Mus. rep. 54, 4:326-30.
- Aspidiotus forbesi*. Cherry scale insect. Mus. bul. 46, p.330-32. *Same*, Mus. rep. 54, 4:330-32.
- Aspidiotus hederæ*. Ivy scale insect. Ent. rep. 11. p.203-4. *Same*, Mus. rep. 49, 1:203-4.
- Mus. bul. 46, p.333-36. *Same*, Mus. rep. 54, 4:333-36.
- Aspidiotus ostreaeformis*. European fruit tree scale insect. Mus. bul. 46, p.323-26. *Same*, Mus. rep. 54, 4:323-26.
- Aspidiotus perniciosus*. San José scale insect. Ent. rep. 11, p.200-33. *Same*, Mus. rep. 49, 1:200-33.

Hemiptera. *Scale insects (continued)*

- Mus. bul. 13, p.263-305. *Same*, Mus. rep. 48, 1:263-305 (2d paging).
- Ent. rep. 16, p.967-88. *Same*, Mus. rep. 54, 2:967-88.
- Mus. bul. 46, p.304-23, 336-42. *Same*, Mus. rep. 54, 4:304-23, 336-42.
- Ent. rep. 17, p.761-75. (Mus. bul. 53).
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- Chionaspis furfura. Scurfy bark louse. Mus. bul. 46, p.300-4. *Same*, Mus. rep. 54, 4:300-4.
- Chionaspis pinifoliae. Pine leaf scale insect. Forest, Fish and Game Com. rep. 7. *In press*.
- Gossyparia ulmi. Elm tree bark louse. Ent. rep. 12, p.292-98. *Same*, Mus. rep. 50, 1:292-98.
- Mus. bul. 20, p.16-18. *Same*, Mus. rep. 52, 1:16-18.
- Mus. bul. 27, p.46. *Same*, Mus. rep. 53, 1:46.
- Forest, Fish and Game Com. rep. 5, p.375-79.
- Lecanium tulipiferae. Tulip tree scale insect. Ent. rep. 14, p.213-16. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:213-16.
- Mytilaspis pomorum. Appletree bark louse. Ent. rep. 4, p.114-20. *Same*, Mus. rep. 41, p.234-40.
- Mus. bul. 46, p.297-300. *Same*, Mus. rep. 54, 4:297-300.
- Pulvinaria innumerabilis. Cottony maple tree insect. Ent. rep. 6, p.141-47. *Same*, Mus. rep. 43, p.141-47.
- Mus. bul. 27, p.52. *Same*, Mus. rep. 53, 1:52.
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See also Helderberg limestones.

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 Cushing. Pre-Cambrian Outlier at Little Falls. Geol. rep. 20 (for 1900) 1902. p.83-95. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r83-95.

Darton. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 13 (for 1893) 1894. p.407-29. pl. (phot.) *Same*, Mus. rep. 47. (for 1893) 1894. p.601-23. pl. (phot.)

Darton. Faulted Region. Geol. rep. 14 (for 1894) 1895. p.11-12, 31-53. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:11-12, 31-53. pl. (phot.) map.

Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.

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Map of the vicinity of Frankfort hill, 31.5x16.5cm.

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Highlands of Hudson. Mather. Altered Taconic Rocks. Geol. N. Y. pt1. 1843. p.446-50.

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Mather. Magnetic Oxide of Iron. Geol. N. Y. pt1. 1843. p.559-75.

Smock. Geological Reconnaissance in the Crystalline Rock Region: Dutchess, Putnam and Westchester Counties, New York. Mus. rep. 39 (for 1885) 1886. p.165-85. map.

Map of Archaean areas of Highlands (uncolored) 11x18.5cm.

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^aFirst use of term.

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- Ent. rep. 4 (for 1887) 1888. p.27-48. *Same*, Mus. rep. 41 (for 1887) 1888. p.147-68.
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- Iroquois, Lake,** *see* Glacial lakes.
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- Isopoda,** *see* Crustacea.
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- Vanuxem. Ithaca Group in Cayuga County. Geol. N. Y. pt3. 1842. p.289.
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- Vanuxem. Ithaca Group in Madison County. Geol. N. Y. pt3. 1842. p.277.
- Vanuxem. Ithaca Group in Onondaga County. Geol. N. Y. pt3. 1842. p.285.
- Vanuxem. Ithaca Group in Otsego County. Geol. N. Y. pt3. 1842. p.254.
- Vanuxem. Ithaca Group in Tompkins County. Geol. N. Y. pt3. 1842. p.298.
- Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.175-77.
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- Lintner. The White Scale. Ent. rep. 11 (for 1895) 1896. p.203-4. *Same*, Mus. rep. 49 (for 1895) 1897. 1:203-4.
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^a First use of term.

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- Hough. Ancient Remains of Art in Jefferson and St Lawrence Counties. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.99-105, 5pl.; 4 (for 1850) 1851. p.103-9. 5pl.
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- Jewett collection.** Catalogue. Mus. rep. 10 (for 1856) 1857. p.29-37.
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- Jointworm.** Fitch. Jointworm. Ag. Soc. Trans. 21 (for 1861) 1862. p.830-41 (rep.7. sep. ed. p.144-55).
- Lintner. Joint-worm. Ent. rep. 4 (for 1887) 1888. p.27-35. *Same*, Mus. rep. 41 (for 1887) 1888. p.147-55.
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- Kellogg collection.** Catalogue. Mus. rep. 21 (for 1867) 1871. p.9, 13.
- Keuka lake.** Hall. Crooked Lake. Geol. N. Y. pt4. 1843. p.406-7.

- Kings county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.72.
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- Kingston beds.** aClarke & Schuchert. Kingston Beds. Mus. mem. 3. 1900. p.12. *Same*, Mus. rep. 53 (for 1899) 1901. 2:12.
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- Lactarius.** Peck. Genus Lactarius. Mus. rep. 23 (for 1869) 1873. p.114-20.
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^aFirst use of term in original publication of this article. Science. 1899. new ser. 10:878.

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- Clarke. Value of Amnigenia as an Indicator of Freshwater Deposits during the Devonian of New York, Ireland and the Rhineland. Mus. bul. 49. 1901. p.199-203. pl.11.
- Clarke. Type Specimens in New York State Museum. Mus. bul. 65. *In press*.
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- Hall. Note on the Genus Cypricardites. Mus. rep. 15 (for 1861) 1862. p.192-93.
- Hall. Lamellibranchiata of Niagara Group. Mus. rep. 20 (for 1866) 1867. p.336-41.
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- Wood. Pelecypoda of Marcellus (Stafford) Limestones of Lancaster, Erie Co. N. Y. Mus. bul. 49. 1901. p.167-68.
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- Lintner. Bacon Beetle. Ent. rep. 6 (for 1889) 1890. p.119-23. *Same*, Mus. rep. 43 (for 1889) 1890. p. 119-23.
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- See also* Crystalline rocks.

- Laurentian system.** Hall, C. E. Laurentian Magnetic Iron Ore Deposits of Northern New York. Mus. rep. 32 (for 1878) 1879. p.133-40. *Same*, Geol. rep. 4 (for 1884) 1885. p.23-34, with geol. map of Essex co. 48x40.5cm.
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- Emmons. Lead, Sulphuret of Lead. Geol. rep. 2d dist. (for 1836) 1837. p.124-26 (ed. 2, p.126-28).
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- Nason. Lead Mines at Ellenville. Geol. rep. 13 (for 1893) 1894. p.397-98. *Same*, Mus. rep. 47 (for 1893) 1894. p.591-92.
- Ries. Lead of Orange County. Geol. rep. 15 (for 1895) 1897. p.469-70. *Same*, Mus. rep. 49 (for 1895) 1898. 2:469-70.
- Vanuxem. Ores of Montgomery County. Geol. rep. 3d dist. (for 1837) 1838. p.263-66.
- Whitlock. Lead. Mus. bul. 58. 1902. p.52, 85, 118, 119, 125, 126, 128-29. *See also* Galena.
- Leaf bug.** Lintner. Four-lined Leaf Bug. Ent. rep. 1 (for 1881) 1882. p.271-81.
- Lenticular iron ore,** *see* Clinton ores.
- Lentinus.** Peck. Genus Lentinus. Mus. rep. 23 (for 1869) 1873. p.126-27.
- Leopard moth.** Felt. Leopard Moth. Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.380-84.
- Lintner. Leopard Moth. Ent. rep. 9 (for 1892) 1893. p.426-27. *Same*, Mus. rep. 46 (for 1892) 1893. p.426-27.
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For dates of reports, *see* List of publications, p.264.
- Felt. Species Treated. Ent. rep. 14 (for 1898) 1898. p.163-213. *Same*, Mus. rep. 52 (for 1898) 1900. 1:163-213.
- Ent. rep. 16 (for 1900) 1901. p.955-66. *Same*, Mus. rep. 54 (for 1900) 1902. 2:955-66.
- Ent. rep. 18 (for 1902) p.94-99.
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- Mus. rep. 24 (for 1870) 1872. p.109-70.
- Mus. rep. 26 (for 1872) 1874. p.117-92.
- Mus. rep. 27 (for 1873) 1875. p.137-48.
- Mus. rep. 30 (for 1876) 1878. p.141-248.
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- Ent. rep. 1 (for 1881) 1882. p.81-167, 333-41.
- Ent. rep. 2 (for 1882 & 1883) 1885. p.57-110, 213-17.
- Ent. rep. 3 (for 1886) 1887. p.90-96. *Same*, Mus. rep. 40 (for 1886) 1887. p.90-96.
- Ent. rep. 4 (for 1887) 1888. p.48-60, 151-54. *Same*, Mus. rep. 41 (for 1887) 1888. p.168-80, 271-74.
- Ent. rep. 5 (for 1888) 1889. p.174-219. *Same*, Mus. rep. 42 (for 1888) 1889. p.174-219.

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- Ent. rep. 7 (for 1890) 1891. p.225-28, 302-7. *Same*, Mus. rep. 44 (for 1890) 1892. p.225-28, 302-7.
- Ent. rep. 8 (for 1891) 1893. p.129-40, 169-72. *Same*, Mus. rep. 45 (for 1891) 1892. p.129-40, 169-72.
- Ent. rep. 10 (for 1894) 1895. p.369-86. *Same*, Mus. rep. 48 (for 1894) 1895. 1:369-86 (1st paging).
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- Ent. rep. 13 (for 1897) 1898. p.342-51. *Same*, Mus. rep. 51 (for 1897) 1899. 1:342-51.
- Lintner. Otto Meske's Collection of Lepidoptera. Alb. Inst. Trans. 1874. 8:215-20.

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The following list of species includes only the more important accounts by Fitch, in Ag. Soc. Trans. 14, 15; by Lintner in Ent. Contrib. 1-4 and Ent. rep. 1-13, Mus. bul. 6; by Felt in Ent. rep. 14-18, Ag. Soc. Trans. 59, Forest, Fish and Game Com. reports, Mus. bul. 27, 37; by Speyer in Mus. rep. 23. For dates of reports and bulletins see p.241, 264.

- Acidalia lacteola*. Mus. rep. 30, p.224.
- Alypia octomaculata*. Ent. rep. 5, p.179-83. *Same*, Mus. rep. 42, p.179-83.
- Anisota senatoria*. Ent. rep. 5, p.192-200. *Same*, Mus. rep. 42, p.192-200.
- Forest, Fish and Game Com. rep. 7. *In press*.
- Bucculatrix pomifoliella*. Ent. rep. 1, p.157-62.
- Cacoecia fervidana*. Forest, Fish and Game Com. rep. 7. *In press*.
- Carpocapsa pomonella*. Ent. rep. 9, p.338-42. *Same*, Mus. rep. 46, p.338-42.
- Ag. Soc. Trans. 59, p.276-77.
- Cerura aquilonaris*. Mus. rep. 30, p.197-99.
- Cerura candida*. Mus. rep. 30, p.199-200.
- Cerura occidentalis*. Mus. rep. 30, p.194-95.
- Cidaria packardata*. Mus. rep. 30, p.225-26.
- Clisiocampa americana*. Ent. rep. 14, p.117-90. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:177-90.
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- Cossus reticulatus*. Mus. rep. 30, p.242-43.
- Cossus undosus*. Mus. rep. 30, p.243-45.
- Cucullia intermedia*. Mus. rep. 23, p.217-22.
- Cucullia lucifuga*. Mus. rep. 23, p.217-22.
- Cucullia serraticornis*. Mus. rep. 26, p.174-76.
- Cucullia speyeri*. Mus. rep. 26, p.168-74.
- Diastictis ribearia*. Ent. rep. 12, p.310-11. *Same*, Mus. rep. 50, 1:310-11 (1st paging).
- Mus. bul. 37, p.13-14. *Same*, Mus. rep. 54, 3:13-14.
- Ellema pineum*. Mus. rep. 23, p.169-71.
- Eudamus epigena*. Mus. rep. 30, p.181-82.

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- Euproctis chrysorrhoea. Ent. rep. 18, p.94-99.
 Euvanessa antiopa. Forest, Fish and Game Com. rep. 5, p.368-71.
 Heliothis armiger. Ent. rep. 1, p.116-26.
 Hemileuca maia. Mus. rep. 23, p.137-53.
 — Forest, Fish and Game Com. rep. 7. *In press*.
 Hydroecia nitela. Ent. rep. 1, p.110-16.
 Hyphantria cunea. Forest, Fish and Game Com. rep. 5, p.363-68.
 Hypocala hilli. Mus. rep. 30, p.217-19.
 Leucania unipuncta. Ent. rep. 12, p.190-214. *Same*, Mus. rep. 50, 1:190-214 (1st paging).
 Lycaena lotis. Mus. rep. 30, p.169-70.
 Mamestra picta. Ent. rep. 5, p.206-10. *Same*, Mus. rep. 42, p.206-10.
 — Ent. rep. 14, p.201-7. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:201-7.
 Mecyna reversalis. Ent. rep. 11, p.142-45. *Same*, Mus. rep. 49, 1:142-45.
 Melitaea nycteis. Mus. rep. 23, p.158-59.
 Melitaea phaeton. Mus. rep. 23, p.154-57.
 Melitta satyriniformis. Ent. rep. 2, p.57-68.
 Nisoniades afranius. Mus. rep. 30, p.175-76.
 Nisoniades ausonius. Mus. rep. 23, p.166-68.
 Nisoniades icelus. Mus. rep. 23, p.162-64.
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 — Ent. rep. 11, p.124-26. *Same*, Mus. rep. 49, 1:124-26.
 — Ent. rep. 14, p.163-76. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:163-76.
 — Mus. bul. 27, p.41-44. *Same*, Mus. rep. 53, 1:41-44.
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 — Ent. rep. 12, p.218-22. *Same*, Mus. rep. 50, 1:218-22 (1st paging).
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 Peridroma saucia. Ent. rep. 5, p.200-6. *Same*, Mus. rep. 42, p.200-6.
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 — Ent. rep. 16, p.955-62. (Mus. bul. 36). *Same*, Mus. rep. 54, 2:955-62.
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 — Ent. rep. 10, p.377-86. *Same*, Mus. rep. 48, 1:377-86 (1st paging).
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Xylina unimoda. Mus. rep. 30. p.208-9.

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White. Report on the Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:r21-54. pl. (phot.) 2 maps.

Map of the vicinity of Frankfort hill, 31.5x16.5cm.

Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.

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Merrill. Directory of Quarrymen. Mus. bul. 15. 1895. p.486-93. *Same*, Mus. rep. 48 (for 1894) 1895. 1:486-93 (2d paging).

Merrill. Road Materials. Mus. bul. 17. 1897. p.105. *Same*, Mus. rep. 50 (for 1896) 1898. 1:105 (2d paging).

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Nason. Limestone for Building in Albany County. Geol. rep. 13 (for 1893) 1894. p.279. *Same*, Mus. rep. 47 (for 1893) 1894. p.473.

Ries. Limestones of New York and their Economic Value. Geol. rep. 17 (for 1897) 1899. p.355-467. *Same*, Mus. rep. 51 (for 1897) 1899. 2:355-467.

Limestones (*continued*)

Ries. Lime and Cement Industries of New York, with analyses. Mus. bul. 44. 1901. p.637-968. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 3:637-968. pl. (phot.) maps.

Map of New York State showing location of limestone quarries and marl deposits and manufactories of natural and Portland cement (uncolored) 72x74cm.

Map of New York State showing distribution of limestone (uncolored) 44.5x35cm.

Smock. Limestones. Mus. bul. 3. 1888. p.20-22; 10. 1890. p.207-13.

— — — revised by Merrill. Mus. bul. 15. 1895. p.423-29. *Same*, Mus. rep. 48 (for 1894) 1895. 1:423-29 (2d paging).

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Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.

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Smock. Tests; Durability; Causes of Decay. Mus. bul. 10. 1890. p.364-89.

Vanuxem. Limestone, Marl and Tufa. Geol. rep. 4th dist. (for 1836) 1837. p.191-93 (ed. 2, p. 193-95).

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See also Carboniferous system; Crystalline rocks; Primitive limestone; Waterlime; *also names of formations*, i. e. Onondaga limestone; Tully limestone, etc.

Limonite. Beck. Limonite: Hydrous Peroxide of Iron. Min. rep. (for 1836) 1837. p.33-39 (ed. 2, p.35-41); (for 1838) 1839. p.46. Min. N. Y. 1842. p.29-36, 386-87.

Carr. Bog-ore. Geol. rep. 3d dist. (for 1839) 1840. p.386.

Emmons. Bog Ore of St Lawrence County. Geol. rep. 2d dist. (for 1837) 1838. p.208-9. Geol. N. Y. pt2. 1842. p.348-49.

Emmons. Hematitic Iron, or Limonite. Geol. N. Y. pt2. 1842. p.161-62.

Hall. Bog Ore. Geol. rep. 2d dist. (for 1836) 1837. p.138-42 (ed. 2, p.140-44).

Hall. Bog Iron Ore. Geol. rep. 4th dist. (for 1838) 1839. p.335.

Hall. Bog Ore of Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.367. Geol. N. Y. pt4. 1843. p.447.

Hall. Bog Iron of Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.355. Geol. N. Y. pt4. 1843. p.437-38.

Hall. Bog and Argillaceous Iron of Wayne County. Geol. N. Y. pt4. 1843. p.419.

Mather. Bog Ore. Geol. rep. 1st dist. (for 1836) 1837. p.72-73 (ed. 2, p.74-75); (for 1839) 1840. p.224-25. Geol. N. Y. pt1. 1843. p.119-20, 236-37.

Mather. Bog Ore of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.156.

Mather. Limonite in Putnam and Westchester Counties. Geol. rep. 1st dist. (for 1838) 1839. p.107-8.

Mather. Limonite and Lead. Geol. rep. 1st dist. (for 1840) 1841. p.111-12.

Mather. Limonite or Hematite Ore Beds. Geol. N. Y. pt1. 1843. p.488-98.

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Nason. Limonite of Ulster County. Geol. rep. 13 (for 1893) 1894. p.598. *Same*, Mus. rep. 47 (for 1893) 1894. p.592.

Smock. Limonites of Dutchess and Columbia Counties. Mus. bul. 7. 1889. p.12-13, 52-61.

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Limonite (*continued*)

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Smock. Limonite of Staten Island. Mus. bul. 7. 1889. p.61-62.

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Vanuxem. Bog Ore, Limonite. Geol. N. Y. pt3. 1842. p.228-29.

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Little Falls quadrangle. Cushing. Pre-Cambrian Outlier at Little Falls. Geol. rep. 20 (for 1900) 1902. p.83-95. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r83-95.

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Bishop. Salt Wells of Western New York. Geol. rep. 5 (for 1885) 1886. p.12-47.

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Hall. Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.416-24. Geol. N. Y. pt4. 1843. p.459-64.

Ries. Limestone Formations. Mus. bul. 44. 1901. p.792-93. *Same*, Mus. rep. 54 (for 1900) 1902. 3:792-93.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.83-84, 88; 10. 1890. p.253, 274, 276.

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Livonia salt shaft. Clarke. Fossils Found in the Livonia Salt Shaft. Geol. rep. 11 (for 1891) 1892. p.10-11, 54-55. *Same*, Mus. rep. 45 (for 1891) 1892. p.326-27, 370-71.

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Clarke. Succession of the Fossil Faunas in the Section of the Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.131-58. *Same*, Mus. rep. 47 (for 1893) 1894. p.325-52.

Clarke. New or Rare Species of Fossils from the Horizons of the Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.159-89. 4pl. *Same*, Mus. rep. 47 (for 1893) 1894. p.353-83.

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Livonia salt shaft (*continued*)

— — — Geol. rep. 12 (for 1892) 1893. p.13. *Same*, Mus. rep. 46 (for 1892) 1893. p.159.

Hall. Livonia Salt Shaft, its History and Geological Relations, etc. Geol. rep. 13 (for 1893) 1894. p.11-20. diagrams. 2 maps. *Same*, Mus. rep. 47 (for 1893) 1894. p.203-14. diagrams. map.

Map showing area of New York covered by Onondaga salt group, 37x14.5cm.

Map showing salt-producing district of western New York, 34.5x21.5cm (in Geol. rep. only).

Luther. Report on the Geology of the Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.21-130. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.215-324. pl. (phot.)

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Llandeilo flags. Conrad. Llandeilo Flags of Murchison. Pal. rep. (for 1837) 1838. p.114.

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Lockport group, *see* Niagara group.

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oHall. Lockport Limestone. Geol. rep. 4th dist. (for 1838) 1839. p.239.

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See also Niagara limestone.

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Long Island. Bean. Report on the Fishes of Long Island Collected in the Summer of 1898. Mus. rep. 52 (for 1898) 1900. 1:92-111.

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Mather. Encroachments of the Sea. Geol. N. Y. pt1. 1843. p.19-23.

Mather. Marine Alluvial Detritus; Beaches, Shoals, Spits, etc. Geol. N. Y. pt1. 1843. p.24-27, 234-35.

Mather. Sand Dunes. Geol. N. Y. pt1. 1843. p.30-32.

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Mather. Geological Map of Long and Staten Islands with the Environs of New York. 129x56.5cm. Geol. N. Y. pt1. 1843. pl.1.

Mather. Valleys. Geol. N. Y. pt1. 1843. p.271-72.

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Ries. Clays. Mus. bul. 12. 1895. p.121-33. *Same*, Mus. rep. 48 (for 1894) 1895. 1:121-33 (2d paging).

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See also Kings county; Nassau county; Queens, Borough of; Queens county; Suffolk county.

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Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.

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Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.

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Geologic maps of parts of Clinton county, 33x22, 10.5x5cm.

^a First use of term.

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- Mosses.** Peck. Catalogue of Mosses presented to the State of New York by C. H. Peck. Mus. rep. 18 (for 1864) 1865. p.193-96.
 Peck. List of Mosses of the State of New York. Mus. rep. 19 (for 1865) 1866. p.42-70.
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- Mound builders,** *see* Aborigines.
- Mounds.** Vanuxem. Mounds. Geol. N. Y. pt3. 1842. p.247-48.
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^aFirst use of term.

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Nantucket pine moth. Felt. Nantucket Pine Moth. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.***Naphtha.** Beck. Naphtha. Min. N. Y. 1842. p.183.**Naples quadrangle.** Clarke. Stratigraphy of the Canandaigua and Naples Quadrangles. Mus. bul. 63. 2 maps. *In press.***«Naples shales (Cashaqua; Gardeau; Portage).** Clarke. Annelid Teeth from the Lower Portion of the Hamilton Group and from the Naples Shales of Ontario County, N. Y. Geol. rep. 6 (for 1886) 1887. p.30-32. 1pl.

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Natron. Beck. Carbonate of Soda. Natron. Min. rep. (for 1838) 1839. p.17. Min. N. Y. 1842. p.197-98.**Natural gas.** Bishop. Natural Gas of Erie County. Geol. rep. 15 (for 1895) 1897. p. 346-89. *Same*, Mus. rep. 49 (for 1895) 1898. 2:346-89.

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«Term proposed by J. M. Clarke in 1885, *see* U. S. Geol. Surv. Bul. 16. p.36.

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- ^aVanuxem. Niagara Group. Geol. N. Y. pt3. 1842. p.90-94.
- Vanuxem. Niagara Group in Cayuga County. Geol. N. Y. pt3. 1842. p.286.
- Vanuxem. Niagara Group in Madison County. Geol. N. Y. pt3. 1842. p.272.
- Vanuxem. Niagara Group in Oneida County. Geol. N. Y. pt3. 1842. p.262-63.
- Vanuxem. Niagara Group in Onondaga County. Geol. N. Y. pt3. 1842. p.278.
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- ^bNiagara limestone (Lockport). Bishop. Niagara Limestone of Erie County. Geol. rep. 15 (for 1895) 1897. p.390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:390.
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^a First use of term.^b Term first used by Hall. Amer. Jour. Sci. 1842. ser. 1. 42-58.

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- Ries. Coralline or Niagara Limestone of Ulster County. Geol. rep. 17 (for 1897) 1899. p.459. *Same*, Mus. rep. 51 (for 1897) 1899. 2:459.
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- Ries. Niagara Limestone of Wayne County. Mus. bul. 44. 1901. p.828. *Same*, Mus. rep. 54 (for 1900) 1902. 3:828.
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- aNiagara shale (Rochester).** Emmons. Niagara Shale. Ag. N. Y. 1846. 1:151.
- Hall. Niagara Shale. Geol. N. Y. pt4. 1843. p.81-83.
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^aFirst use of term.

Oneida county (*continued*)

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Pt1, Geologic map of parts of Chenango, Madison, Otsego, Schoharie and Albany counties, 58x33.5cm.

Pt2, Map showing distribution of middle and upper Devonian rocks in central-eastern New York, 61x38.5cm.

Map of Delaware county by W. L. Fisher, 34x32cm.

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- Hall. Onondaga Limestone of Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.427-29. Geol. N. Y. pt4. 1843. p.466.
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^aFirst use of term.

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Periplaneta orientalis. Ag. Soc. Trans. 59, p.299.

Phyllodromia germanica. Ag. Soc. Trans. 59, p.299.

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- Oswego county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.84.
 Felt. Entomological Reports from. Ent. rep. 15 (for 1899) 1900. p.566-67.
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 141-50. *Same*, Mus. rep. 51 (for 1897) 1899. 2:68-94, 141-50.
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Contents:

- v. 1 Organic Remains of the Lower Division of the New York System.
- v. 2 Organic Remains of Lower Middle Division of the New York System.
- v. 3 Organic Remains of the Lower Helderberg Group and the Oriskany Sandstone.
- v. 4 Fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups.
- v. 5 pt1 Lamellibranchiata 1. Monomyaria of the Upper Helderberg, Hamilton and Chemung Groups.
- — — Lamellibranchiata 2. Dimyaria of the Upper Helderberg, Hamilton, Portage and Chemung Groups.
- pt2 Gastropoda Pteropoda and Cephalopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups.
- v. 6 Corals and Bryozoa of the Lower and Upper Helderberg and Hamilton Groups.
- v. 7 Trilobites and other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung and Catskill Groups. Cont. supplement to v.5, pt2. Pteropoda, Cephalopoda and Annelida.
- v. 8 pt1 Introduction to the Study of the Genera of the Paleozoic Brachiopoda.
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- Red copper ore,** *see* Cuprite.
- Red hematite,** *see* Hematite.
- Red marl and sandstone.** Hall. Red Marl and Sandstone. Geol. rep. 4th
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- Red oxid of iron,** *see* Hematite.
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- Red sandstone, old,** *see* Old red sandstone.
- Red sandstone of Niagara.** aConrad. Red or Variegated Sandstone of
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^aFirst use of term.

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- Mather. Roofing Slate. Geol. rep. 1st dist. (for 1840) 1841. p.94-95. Geol. N. Y. pt1. 1843. p.419-21.
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- Hunt. Rutile. Mus. rep. 21 (for 1867) 1871. p.86.
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^aFirst use of term in original publication of this article. Science. 1899. new ser. 10:877.

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^aTerm introduced by Dana. Manual of Geology. *rev. ed.* 1864, p.246.

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- Scorodite.** Beck. Scorodite. Min. N. Y. 1842. p.396.
- Scorpion flies,** *see* Neuropteroid insects.
- Scratched rocks.** Mather. Smoothed and Scratched Surfaces of Rocks. Geol. N. Y. pt1. 1843. p.198-211.
- Mather. Theories of Erratic Blocks, Boulders, Scratches, etc. Geol. N. Y. pt1. 1843. p.214-21.
- Vanuxem. Scratches and Furrows upon Water-worn Rocks. Geol. N. Y. pt3. 1842. p.244-47.
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a First use of term.

Seneca county (*continued*)

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^aHall. Seneca Limestone in Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.293-95. Geol. N. Y. pt4. 1843. p.450-51.

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——— *revised* by Merrill. Mus. bul. 19. 1898. p.202. *Same*, Mus. rep. 51 (for 1897) 1899. 1:202.

^aVanuxem. Seneca Limestone. Geol. rep. 3d dist. (for 1838) 1839. p.275-78; (for 1839) 1840. p.378-79. Geol. N. Y. pt3. 1842. p.144-45.

Vanuxem. Seneca Limestone in Madison County. Geol. N. Y. pt3. 1842. p.274.

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See also Corniferous limestone; Onondaga limestone; Upper Helderberg group.

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^aTerm used by Hall and Vanuxem in 1839.

^bFirst use of term in original publication of this article. Science. 1899. new ser. 10:877.

Serpentine (*continued*)

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Smock. Serpentine. Mus. bul. 3. 1888. p.14.

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- Fitch. Insects Injurious to. Ag. Soc. Trans. 15 (for 1855) 1856. p.501-8 (rep. 2.nd sep. ed. p.269-76).
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- Hall. Argillaceous and Calcareous Shales of the Genesee and Niagara Rivers. Geol. rep. 4th dist. (for 1837) 1838. p.297-99.
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- — — Analyses. Mus. bul. 35. 1900. p.898-901. *Same*, Mus. rep. 54 (for 1900) 1902. 2:898-901.
- Vanuxem. Sandstone and Shale. Geol. rep. 4th dist. (for 1836) 1837. p.190-91 (ed. 2, p.192-93).
- See also* Slates.
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- See also* Lower shaly beds; Upper shaly limestone.
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- Darton. Shawangunk Grit. Geol. rep. 13 (for 1893) 1894. p.220-21. *Same*, Mus. rep. 47 (for 1893) 1894. p. 414-15.
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- ^aMather. Shawangunk Grit. Geol. rep. 1st dist. (for 1839) 1840. p.212, 246-55.
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- See also* Oneida conglomerate.
- Shawangunk mountain.** Darton. Shawangunk Mountain. Geol. rep. 13 (for 1893) 1894. p.346-58. *Same*, Mus. rep. 47 (for 1893) 1894. p.540-52.
- Shell grit**, *see* Schoharie grit.
- Shell limerock** (Eaton), *see* Onondaga salt group.
- Shell marl**, *see* Marl.
- Shell money**, *see* Wampum.
- Shells**, *see* Mollusca.
- Sherburne formation.** Clarke. Sherburne Sandstones. Geol. rep. 15 (for 1895) 1897. p.43. *Same*, Mus. rep. 49 (for 1895) 1898. 2:43.
- Conrad. Sherburne Group. Pal. rep. (for 1840) 1841. p.31.
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^aFirst use of term.

Sherburne formation (*continued*)

a Vanuxem. Sherburne Flagstone. Geol. rep. 3d dist. (for 1839) 1840. p.331.

See also Erie division; Hamilton group; Portage group.

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Merrill. Localities in New York. Mus. bul. 15. 1895. p.543. *Same*, Mus. rep. 48 (for 1894) 1895. 1:543 (2d paging).

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Sienite, *see* Syenite.

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Silicious conglomerate. Vanuxem. Siliceous Conglomerate. Geol. rep. 4th dist. (for 1836) 1837. p.193-94 (ed. 2, p.195-96).

Sillimanite. Beck. Sillimanite. Min. N. Y. 1842. p.454.

Whitlock. Sillimanite. Mus. bul. 58. 1902. p.103.

b **Silurian.** Conrad. Organic Remains of Lower Transition or Silurian System. Pal. rep. (for 1837) 1838. p.107-19; (for 1838) 1839. p.57-66; (for 1839) 1840. p.200-7; (for 1840) 1841. p.25-41.

Hall. Table of Rocks. Geol. rep. 4th dist. (for 1839) 1840. p.452-53.

White. Report on the Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:r21-54. pl. (phot.) 2 maps.

Map of the vicinity of Frankfort hill, 31.5x16.5cm.

Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.

See also New York series; Lower Silurian; Ontaric; Upper Silurian; *also* names of subdivisions.

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Mather. Silver Ores. Geol. N. Y. pt1. 1843. p.500-9.

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a First use of term.

b For papers discussing line of division between Silurian and Devonian, *see* under Devonian.

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- Mather. Slate of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.160-65.
- Merrill. Directory of Quarrymen. Mus. bul. 15. 1895. p.485. *Same*, Mus. rep. 48 (for 1894) 1895. 1:485 (2d paging).
- Merrill. Definition. Mus. bul. 19. 1898. p.126. *Same*, Mus. rep. 51 (for 1897) 1899. 1:126.
- Smock. Slate Quarries. Mus. bul. 3. 1888. p.23-24, 135-43, 146; 10. 1890. p.279-81.
- — — revised by Merrill. Mus. bul. 15. 1895. p.421-23. *Same*, Mus. rep. 48 (for 1894) 1895. 1:421-23 (2d paging).
- — — revised by Merrill. Mus. bul. 19. 1898. p.196. *Same*, Mus. rep. 51 (for 1897) 1899. 1:196.
- See also* Magnesian slate; Mica slate; Roofing slates; Shales.
- Slaty limestone.** Mather. Slaty Limestone. Geol. rep. 1st dist. (for 1840) 1841. p.95-96. Geol. N. Y. pt1. 1843. p.417.
- Smaltite.** Beck. Smaltine. Min. N. Y. 1842. p.454.
- Whitlock. Smaltite. Mus. bul. 58. 1902. p.59.
- Smithsonite.** Whitlock. Smithsonite. Mus. bul. 58. 1902. p.83.
- Snails, see** Gastropoda.
- Soap.** Felt. Whale Oil Soap for Scale Insects. Ent. rep. 16 (for 1900) 1901. p.977-82. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:977-82.
- — — Ent. rep. 17 (for 1901) 1902. p.770-75. (Mus. bul. 53).
- — — Ent. rep. 18 (for 1902). p.130-31, 138. *In press*.
- — — Mus. bul. 46. 1901. p.336-37. *Same*, Mus. rep. 54 (for 1900) 1902. 4:336-37.
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- See also* Talc.
- Soda.** Ries. Soda Manufacture. Mus. bul. 44. 1901. p.659. *Same*, Mus. rep. 54 (for 1900) 1902. 3:659.
- Sodium iodide.** Beck. Hydriodate of Soda. Min. rep. (for 1838) 1839. p.17. Min. N. Y. 1842. p.200.
- Sodom, Lake.** Geddes. Lake Sodom. Ag. Soc. Trans. 19 (for 1859) 1860. p.261.
- Vanuxem. Lake Sodom. Geol. rep. 3d dist. (for 1838) 1839. p.264-69. Geol. N. Y. pt3. 1842. p.242.
- Soils.** Beck. Soils. Min. N. Y. 1842. p.89-93.
- Emmons. Soils. Geol. rep. 2d dist. (for 1837) 1838. p.187-94.
- Emmons. Agriculture of New York. 1846-54. 5v. illus. pl. sq. Q.
For contents, *see* List of publications, p.269-70.
- Horton. Improvement of the Soil; Manures. Geol. rep. 1st dist. (for 1838) 1839. p.154-56.
- Mather. Soils. Geol. rep. 1st dist. (for 1836) 1837. p.66-70 (ed. 2, p.68-72); (for 1840) 1841. p.63-66.
- Vanuxem. Soil. Geol. N. Y. pt3. 1842. p.231-33.
- Southern tomicus.** Felt. Southern Tomicus. Forest, Fish and Game Com. rep. 7 (for 1901). *In press*.
- Sparry limerock** (Eaton), *see* Gray sparry limestone; Black river limestone.

- Sparry limestone.** Emmons. Sparry Limestone. Geol. N. Y. pt2. 1842. p.151-52. Ag. N. Y. 1846. 1:72-74.
- Fitch. Sparry Limestone of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.843.
- Spathic iron, see Siderite.**
- Specular iron ore, see Hematite.**
- Spialerite.** Beck. Zinc Blende. Min. N. Y. 1842. p.52, 408-11. Mus. rep. 3 rev. ed. (for 1849) 1850. p.149.
- Merrill. Localities. Mus. bul. 15. 1895. p.580. *Same*, Mus. rep. 48 (for 1894) 1895. 1:580 (2d paging).
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- Spheue, see Titanite.**
- Spinel.** Beck. Spinelle. Min. N. Y. 1842. p.315-18. Mus. rep. 3 rev. ed. (for 1849) 1850. p.135.
- Hunt. Spinel. Mus. rep. 21 (for 1867) 1871. p.85.
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- Spodumene.** Beck. Spodumene. Min. N. Y. 1842. p.368.
- Whitlock. Spodumene. Mus. bul. 58. 1902. p.93.
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Map of New York showing atlas sheets surveyed by the United States Geological Survey in cooperation with the state engineer and surveyor. Jan. 1, 1900 (un-colored) 22.5x17.5cm.

See also Albion quadrangle; Amsterdam quadrangle; Brockport quadrangle; Brooklyn quadrangle; Canandaigua quadrangle; Harlem quadrangle; Hempstead quadrangle; Little Falls quadrangle; Medina quadrangle; Mooers quadrangle; Naples quadrangle; Olean quadrangle; Oyster Bay quadrangle; *also under names of counties*.

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See also Hudson river group; Utica shale.

Transition limerock (Eaton), *see* Black river limestone.

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Transition sandrock (Eaton), *see* Calciferous sandrock.

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Emmons. Trap, Porphyry or Volcanic Rocks of Essex County. Geol. N. Y. pt2. 1842. p.263-65.

Emmons. Trap or Igneous Rocks of Warren County. Geol. N. Y. pt2. 1842. p.184-85.

Hall. Trappean Rocks. Pal. N. Y. 1859. 3:78-80.

Kümmel. Trap Rocks of Rockland County. Geol. rep. 18 (for 1898) 1899. p.22-42. *Same*, Mus. rep. 52 (for 1898) 1900. 2:22-42.

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^aTerm first used by Conrad and Vanuxem in 1838.

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- Mather. Trenton Limestone Group. Geol. N. Y. pt1. 1843. p.397-402.
- Mather. Fossil Remains. Geol. N. Y. pt1. 1843. p.402.
- Merrill. Trenton Limestone. Mus. bul. 19. 1898. p.148-49. *Same*, Mus. rep. 51 (for 1897) 1899. 1:148-49.
- Ries. Trenton Limestones. Geol. rep. 17 (for 1897) 1899. p.359-62. *Same*, Mus. rep. 51 (for 1897) 1899. 2:359-62.
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- Ries. Trenton Limestone of Jefferson County. Mus. bul. 44. 1901. p.789. *Same*, Mus. rep. 54 (for 1900) 1902. 3:789.
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- Ries. Trenton Limestone of Orange County. Geol. rep. 15 (for 1895) 1897. p.400-1. *Same*, Mus. rep. 49 (for 1895) 1898. 2:400-1.

Trenton limestone (*continued*)

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- Ries. Trenton Limestone of Warren County. Geol. rep. 17 (for 1897) 1899. p.459-60. *Same*, Mus. rep. 51 (for 1897) 1899. 2:459-60.
 ——— *revised*. Mus. bul. 44. 1901. p.824-25. *Same*, Mus. rep. 54 (for 1900) 1902. 3:824-25.
- Ries. Black Trenton Limestone of Washington County. Geol. rep. 17 (for 1897) 1899. p.461-62. *Same*, Mus. rep. 51 (for 1897) 1899. 2:461-62.
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- Ries. Trenton Limestones of Westchester County. Geol. rep. 17 (for 1897) 1899. p.462-67. *Same*, Mus. rep. 51 (for 1897) 1899. 2:462-67.
- Smock. Trenton Limestone. Mus. bul. 3. 1888. p.21; 10. 1890. p.210-11.
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^aTerm first used by Conrad and Vanuxem in 1838.

Triassic (continued)

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- Trichoptera,** *see* Neuropteroid insects.
- Trilobita,** *see* Crustacea.
- Triplite.** Beck. Triplite. Min. N. Y. 1842. p.455.
- Troostite.** Beck. Troostite. Min. N. Y. 1842. p.456.
- See also* Willemite.
- Troy.** Aldrich. Partial List of Shells found near Troy, N. Y. Mus. rep. 22 (for 1868) 1869. p.17-24.
- Smock. Stone Construction in. Mus. bul. 10. 1890. p.330-31.
- Tufa,** *see* Calcareous tufa; Ferruginous tufa.
- Tuliptree scale insect.** Felt. Tulip Tree Scale Insect. Ent. rep. 14 (for 1898) 1898. p.213-16. (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:213-16.
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- Hall. Tully Limestone in Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.300-1. Geol. N. Y. pt4. 1843. p.452.
- Hall. Tully Limestone in Tompkins County. Geol. rep. 4th dist. (for 1838) 1839. p.317. Geol. N. Y. pt4. 1843. p.475.
- Hall. Tully Limestone in Yates County. Geol. rep. 4th dist. (for 1838) 1839. p.315. Geol. N. Y. pt4. 1843. p.458.
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Tully limestone (*continued*)

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- Ries. Tully Limestone. Mus. bul. 44. 1901. p.766. *Same*, Mus. rep. 54 (for 1900) 1902. 3:766.
- Ries. Tully Limestone in Seneca County. Mus. bul. 44. 1901. p.819. *Same*, Mus. rep. 54 (for 1900) 1902. 3:819.
- Ries. Tully Limestone in Tompkins County. Mus. bul. 44. 1901. p.819-20. *Same*, Mus. rep. 54 (for 1900) 1902. 3:819-20.
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- — — revised by Merrill. Mus. bul. 15. 1895. p.429. *Same*, Mus. rep. 48 (for 1894) 1895. 1:429 (2d paging).
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- ^aVanuxem. Tully Limestone. Geol. rep. 3d dist. (for 1838) 1839. p.278; (for 1839) 1840. p.381. Geol. N. Y. pt3. 1842. p.163-67.
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Map showing geographic distribution of Tully limestone in central New York, 37.5x19cm.
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- Tungsten.** Beck. Tungsten. Min. N. Y. 1842. p.456.
- Tungstic ocher.** Beck. Tungstic Ochre. Min. N. Y. 1842. p.456.
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- Turquoise.** Whitlock. Turquoise. Mus. bul. 58. 1902. p.121.
- Turtles,** *see* Reptiles.
- Tussock moth.** Felt. White Marked Tussock Moth. Ent. rep. 14 (for 1898) 1898. p.163-76. (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:163-76.
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^aFirst use of term.

Ulster county (*continued*)

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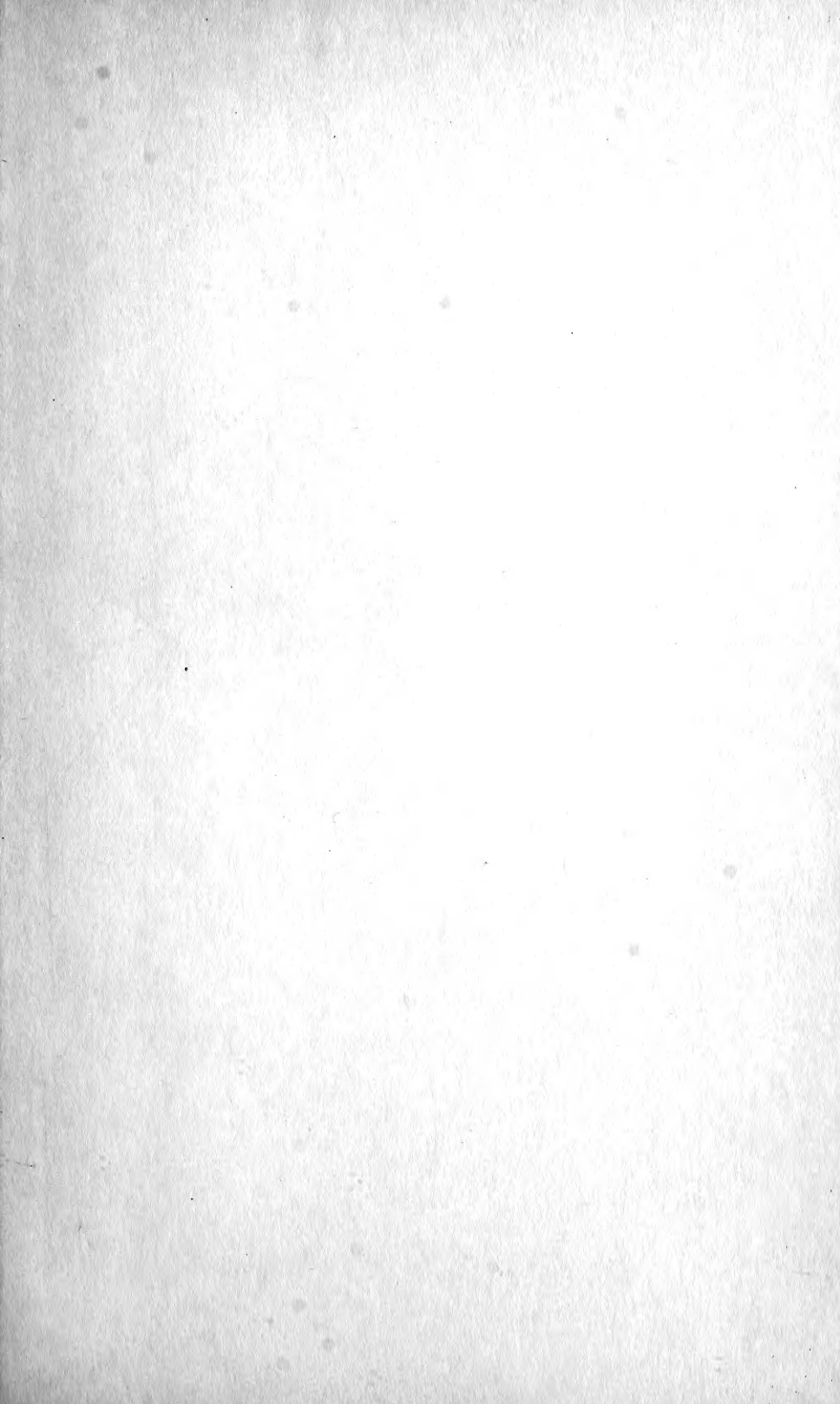
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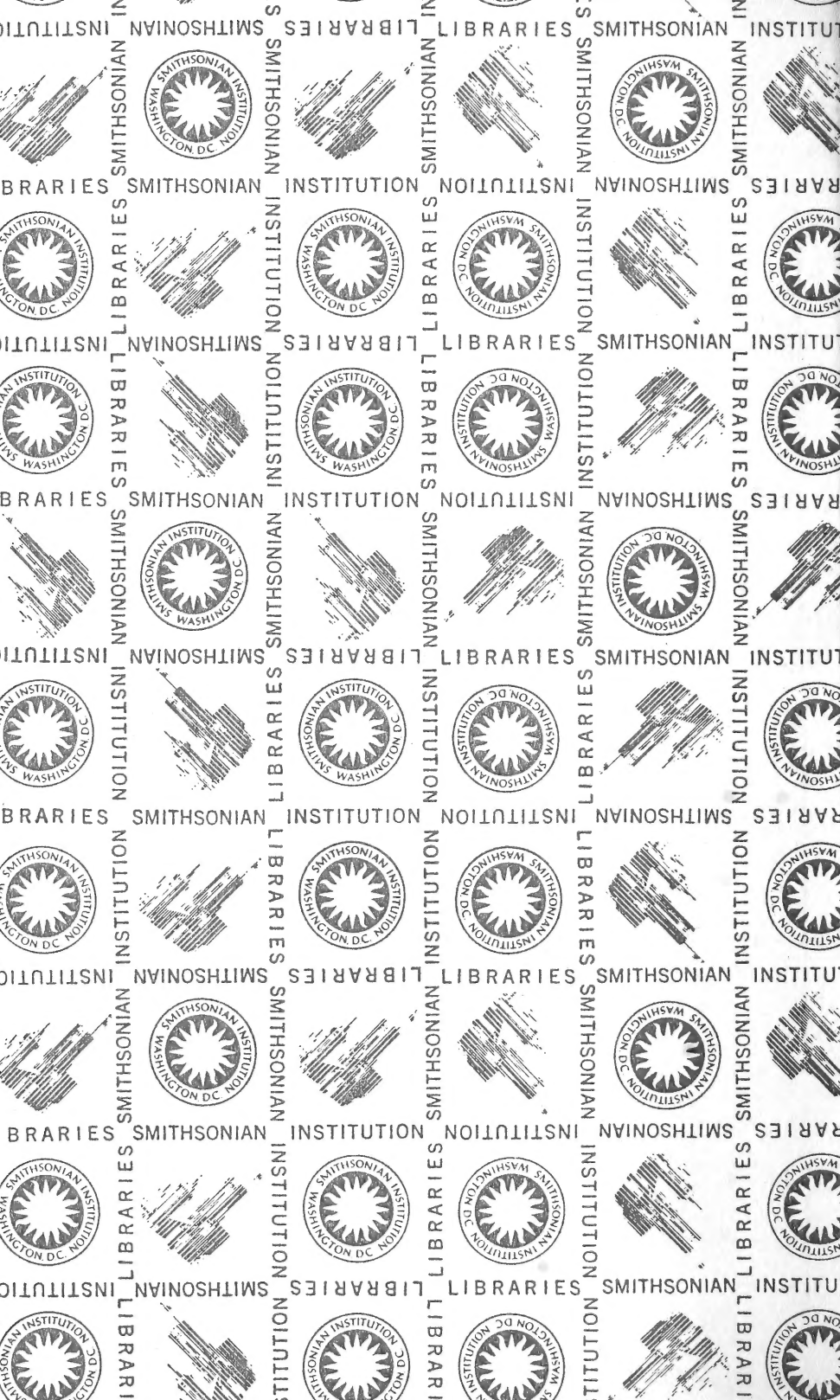
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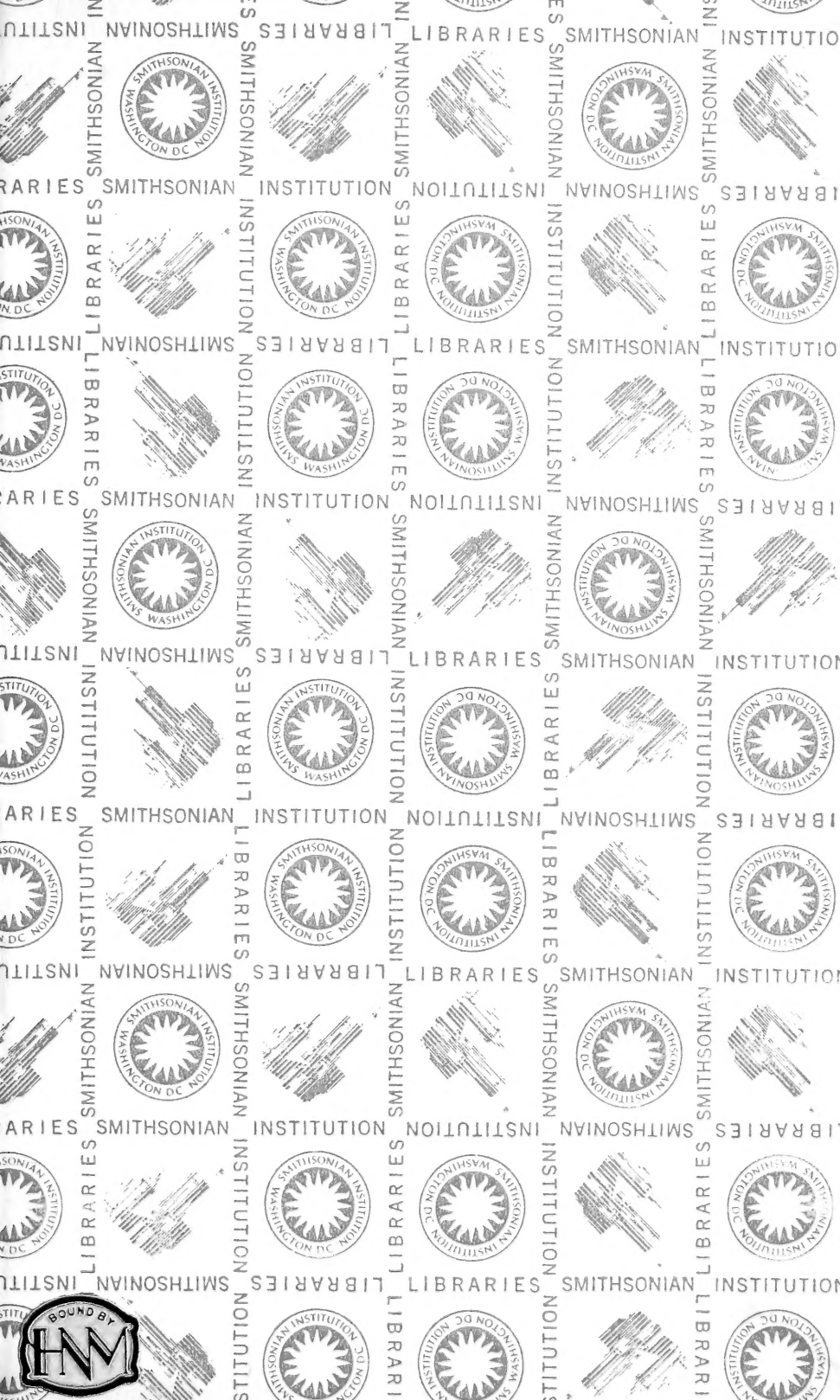
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